



GENERAL SERVICES ADMINISTRATION FEDERAL SUPPLY SERVICE AUTHORIZED FEDERAL SUPPLY SCHEDULE PRICE LIST

Online access to contract ordering information, terms, and conditions, up-to-date pricing and the option to create an electronic delivery system are available through GSA Advantage!, a menu-driven database system. The Internet address for GSA Advantage! is: http://www.gsaadvantage.gov.

General Services Administration Federal Supply Service Facilities Maintenance and Management Contract

CONTRACT NUMBER:

GS-21F-0051V

For more information on ordering from Federal Supply Schedules, click on the FSS Schedules button at http://www.fss.gsa.gov.

CONTRACT PERIOD:

March 5, 2009 through March 4, 2014

HGS Engineering, Inc. 1121 Noble Street Anniston, AL 36201 P (256) 236 1848 F (256) 236 2979

www.hgsengineeringinc.com

DUNS: 03-554-0637

BUSINESS SIZE: Small, Service-Disabled, Veteran Owned



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I. Company Overview: HGS Engineering, Inc.

HGS Engineering, Inc. is a Service-Disabled, Veteran-Owned Small Business (SDVOSB), proudly providing comprehensive Environmental Services to both the Federal Government and private industry since 1998. As a cost-effective and responsive firm, HGS Engineering, Inc. has built a company around repeat business from satisfied clients.

Based in Anniston, AL, HGS Engineering has grown from one office and five employees in 1998 to six offices and over 45 employees in 2008. Over the past decade, our areas of operation have expanded from Environmental Services and now include Construction Management, Facilities Management, Chemical Weapon Destruction Oversight, Emergency Management, Administrative/Technical Support, Engineering, and Data Management. HGS currently provides these wide-ranging services to local governments, various components of the Department of Defense, the Department of Homeland Security, and to private sector clients in a number of industries.

Examples of successful HGS tasks include **Hazardous Materials Management** for Shaw Air Force Base in South Carolina, **Data Management** for the U.S. Army Corps of Engineers, **Hazard Identification** for the U.S. Department of Veteran Affairs, and **Defense Re-use and Marketing Service** for the U.S. Bureau of Indian Affairs.

Environmental Services

HGS Engineering's core competency is in the field of Environmental Engineering, and the company currently gives environmental support to both the Federal Government and the Private Sector. We are staffed with credentialed professionals who have been trained to address air, water, and solid/hazardous waste issues in an industrial context. Our environmental professionals have a thorough understanding of relevant industrial and chemical processes, and appreciate both the scope and application of environmental regulations.

Additionally, HGS has conducted Solid and Hazardous Waste Determinations and has assisted its customers with the proper management and cost-effective disposal of hazardous waste streams. We frequently carry out **RCRA Compliance Assessments** of facilities to assist our clients with both environmental and safety concerns.

Facilities Management

HGS provides Commercial Facilities Maintenance (CFM) for a seven story, 450,000 square-foot building on a 17 acre campus for an Internal Revenue Service building under the General Services Administration (GSA) management. HGS provides total facility support from kitchen equipment maintenance, boiler and chiller maintenance, HVAC management, electrical systems, plumbing, janitorial services, and grounds maintenance of improved and unimproved surfaces.



Figure 1. HGS Personnel perform Facility Maintenance at the IRS Center, Chamblee, GA.





Social Security Administration Building Marietta, Georgia



Alcohol, Tobacco and Firearm Center Marietta, Georgia

HGS Engineering, Inc. provides **Facility Maintenance and Management** services to the Social Security Administration Building and the Alcohol, Tobacco and Firearm Center, both in Marietta, Georgia. Services provided include janitorial, solid waste removal, pest control, ground care, HVAC maintenance, fire alarm maintenance, and emergency response service for any problems.

For a detailed list of services provided by HGS Engineering, Inc., please see Attachment A, located on Page 9. Services offered by HGS Engineering, Inc. include but are not limited to those found in Attachment A.

Corporate Statement

We at HGS Engineering, Inc. appreciate the opportunity to provide this GSA Catalog to Federal Customers seeking the very best in Facility Maintenance and Management Services, Schedule 03FAC.

HGS will always provide responsive, accurate, and cost-effective service for our clients. Maintaining a strong, positive relationship with our clients, one built on mutual trust, is our goal.

Thank you, and I look forward to working with you.

Sincerely,

Harry G. Summers, III, Professional Engineer President/CEO
HGS Engineering, Inc
harry@hgsengineeringinc.com



II. Customer Information: HGS Engineering, Inc.

SCHEDULE TITLE: FACILITY MAINTENANCE AND MANAGEMENT SERVICES

FSC GROUP: 03FAC

CONTRACT NUMBER: GS-21F-0051V

CONTRACT PERIOD: MARCH 5, 2009 THROUGH MARCH 4, 2014

CONTACT INFORMATION: HGS ENGINEERING, INC

1121 NOBLE STREET ANNISTON, AL 36201

P (256) 236-1848 / **F** (256) 236- 2979

www.hgsengineeringinc.com

POINT OF CONTACT: HARRY G. SUMMERS, III, P.E., PRESIDENT / CEO

harry@hgsengineeringinc.com

BUSINESS SIZE: SMALL, SERVICE-DISABLED VETERAN OWNED

1a. Table of awarded special item number(s) with appropriate cross-reference to item descriptions and awarded price(s).

SIN 003 97, Ancillary Repair and Alterations

SIN 003 100 Ancillary Supplies and/or Services, relating to Facilities Maintenance &

Management Solutions for Real Property, Dockside Facilities Maintenance,

Repair Services and Dry Docking Solutions and Industrial, Aerospace and Marine

Coating Solutions

SIN 371 001, Grounds Maintenance

SIN 811 002, Complete Facilities Maintenance SIN 811 003, Complete Facilities Management

SIN 811 004, Electrical, and all Utility Services limited to Facility Maintenance

SIN 811 005, Refrigeration, Heating, Ventilation, Air Conditioner, Boiler and Chiller HVAC

Maintenance

SIN 811 006, Facilities Maintenance and Management Consulting

SIN 871 100 Ancillary Supplies and/or Services, relating to Energy Management, Water Conservation

and Support Services

SIN 871 206, Building Commissioning Services

SEE ATTACHMENT A FOR SERVICES LISTED PER SIN

1b. Identification of the lowest priced model number and lowest unit price for that model for each special item number awarded in the contract. This price is the Government price based on a unit of one, exclusive of any quantity/dollar value, prompt payment, or any other concession affecting price. Those contracts that have unit prices based on geographic location of the customer, should show the range of the lowest price, and cite the areas to which the prices apply:

NOT APPLICABLE



1c. If the Contractor is proposing hourly rates, a description of all corresponding commercial job titles, experience, functional responsibilities, and education for those types of employees or subcontractors who will perform services shall be provided.

SEE ATTACHEMENT B FOR LABOR CATEGORY DESCRIPTIONS

SEE ATTACHMENT C FOR A LIST OF HOURLY RATES

2. Maximum order:

\$1,000,000.00

3. Minimum order:

\$100.00

4. Geographic coverage (delivery area):

DOMESTIC (48 contiguous states and Washington, DC)

5. Point(s) of production (city, county, and State or foreign country):

HGS Engineering, Inc. 1121 Noble Street Anniston, AL 36201

6. Discount from list prices or statement of net price:

NOT APPLICABLE

7. Quantity discounts:

NOT APPLICABLE

8. Prompt payment terms:

1/2 % - 20 days; NET 30

9a. Notification that Government purchase cards are accepted at or below the micro-purchase threshold:

YES

9b. Notification that Government purchase cards are accepted or not accepted above the micro-purchase threshold:

NO



10. Foreign items (list items by country of origin):

NONE

11a. Time of delivery: (Contractor insert number of days.)

30 – 45 days ARO

11b. Expedited Delivery:

30 – 45 days ARO

11c. Overnight and 2nd Day Delivery:

CONTACT CONTRACTOR

11d. Urgent Requirements:

CONTACT CONTRACTOR

12. F.O.B. Points

DOMESTIC ONLY, WITH THE EXACT DELIVERY TIME TO BE SPECIFIED

13a. Ordering Address:

HGS Engineering, Inc. 1121 Noble Street Anniston, AL 36201

13b. Ordering Procedures:

For supplies and services, the ordering procedures, information on Blanket Purchase Agreements (BPA's), and a sample BPA can be found at the GSA/FSS Schedule homepage (fss.gsa.gov/schedules).

14. Payment Address:

HGS Engineering, Inc. 1121 Noble Street Anniston, AL 36201

15. Warranty Provision:

NOT APPLICABLE



16. Export Packing Charges, if applicable:

NOT APPLICABLE

17. Terms and conditions of Government purchase card acceptance (any thresholds above the micropurchase level.)

CONTACT CONTRACTOR

18. Terms and conditions of rental, maintenance, and repair (if applicable).

NOT APPLICABLE

19. Terms and conditions of installation (if applicable).

NOT APPLICABLE

20. Terms and conditions of repair parts indicating date of parts price lists and any discounts from price lists (if applicable).

NOT APPLICABLE

20a. Terms and conditions for any other services (if applicable):

NOT APPLICABLE

21. List of service and distribution points (if applicable).

NOT APPLICABLE

22. List of participating dealers (if applicable).

NONE

23. Preventative maintenance (if applicable).

NOT APPLICABLE

24a. Special attributes such as environmental attributes (e.g. recycled content, energy efficiency, and/or reduced pollutants).

NOT APPLICABLE



24b. If applicable, indicate that Section 508 compliance information is available on Electronic and Information (EIT) supplies and services and show where full details can be found (e.g. contractor's website or other location.) The EIT standards can be found at www.Section508.gov/.

NOT APPLICABLE

25. Data Universal Number System (DUNS) Number:

03-5540637

26. Notification regarding registration in Central Contractor Registration (CCR) database.

REGISTERED. CAGE CODE #1HJH9



III. Attachment A: Specific Services Offered Per SIN

HGS Engineering, Inc. can provide comprehensive Facility Maintenance and Management Services including (but not limited to) those listed below:

SIN 003 97, Ancillary Repair and Alterations

- Routine Painting or Carpeting
- Simple Hanging of Drywall
- Basic Electrical or Plumbing Work
- Landscaping
- Similar Noncomplex Services

SIN 003 100, Ancillary Supplies and/or Services, relating to Facilities Maintenance & Management Solutions for Real Property, Dockside Facilities Maintenance, Repair Services and Dry Docking Solutions and Industrial, Aerospace and Marine Coating Solutions

- Ancillary supplies and/or services are support supplies and/or services which are not within the scope of any other SIN on this schedule
- The work performed under this SIN shall be associated with existing SIN (s) that are a part of this schedule

SIN 371 001, Grounds Maintenance

- Mowing
- Planting
- Seeding
- Fertilizing
- Raking
- Mulching
- Watering
- Pruning
- Weeding
- Aerating

SIN 811 002, Complete Facilities Maintenance

- Pest Control Services
- Grounds Maintenance, Landscaping, Tree Trimming, and Snow Removal
- Elevator Inspection and Maintenance Services
- Fire Alarm System Preventive Maintenance and Repair Services and Fire Suppression System Preventive Maintenance and Repair Services
- Locksmith Services
- Janitorial/Custodial Services and Collection and Disposal of Refuse
- Roofing Repair (excluding complete roof replacement)
- Plumbing and Pipefitting
- Electrical (including high/low voltage systems and utility service, and maintenance and repair of exterior electrical distribution system)
- Energy Management Control Services (EMCS), Energy Planning, Energy Analysis and Energy Audit Services
- Paving (as it relates to maintenance and repair of surface areas)



- Telephone Maintenance
- Support Training and Consulting Services
- Cemetery Maintenance
- Operation and Maintenance of Water Distribution System and Maintenance of the Septic Field
- All Mechanical, Operations, Maintenance and Repair of Building Systems, and Heating/Ventilation/Air Conditioning (HVAC) Maintenance
- Maintenance of Facilities and Systems (including instruments, carpentry, masonry, and refrigeration services)

SIN 811 003, Complete Facilities Management

- Property and Facilities Management
- Planning
- Scheduling
- Quality Control Software Support Services
- Computer and/or Facilities Management Systems

SIN 811 004, Electrical, and All Utility Services Limited to Facility Maintenance

- Electrical Services:
 - o Maintenance of High/Low Voltage Systems
 - o Maintenance and Repair of Exterior Electrical Distribution System
- Utility Service Systems:
 - o Electrical
 - o Telephone
 - o Gas and Water Utility Service
 - o Drinking Water and Waste Water Services

SIN 811 005, Refrigeration, Heating, Ventilation, Air Conditioner, Boiler and Chiller HVAC Maintenance

- Refrigeration
- Heating
- Ventilation
- Air Conditioner
- Boilers
- Chillers

SIN 811 006, Facilities Maintenance and Management Consulting

- Development and Planning
- Facilitation and Coordination
- Documentation and Program Planning
- Audits and Inspections
- Evaluations, Studies, Analyses (including cost), Scenarios, Reports
- Policy and Regulation Development Assistance



SIN 871 100, Ancillary Supplies and/or Services, relating to Energy Management, Water Conservation and Support Services

- Ancillary supplies and/or services are support supplies and/or services which are not within the scope of any
 other SIN on this schedule
- The work performed under this SIN shall be associated with existing SIN (s) that are a part of this schedule

SIN 871 206, Building Commissioning Services

- Comprehensive Building Commissioning Services on:
 - o New Construction
 - o Major Modernization
 - o Existing Energy Consuming Operations (Recommissioning)
- Ensure Designed Building Systems Operate Efficiently
- Retro-Commissioning Services
- Energy Efficient Buildings Certification Programs, such as LEED, available



III. Attachment B: Labor Category Descriptions

HGS Engineering, Inc. can supply the following labor categories for each Special Item Number (SIN). For the corresponding list of Hourly Rates, please see Attachment C.

Manager Posit	tions
Position: Manager, Project	Minimum Years of Experience: 10
Responsibilities: Responsible for overall management and per-	Minimum Educational/Degree Requirements:
formance of the project. Single point of contact with the Govern-	Bachelors degree in related field
ment for all contract issues. Full authority to act in the administra-	Training or Certification Requirements: None
tion of the contract. Establishes policies consistent with tenant, cus-	Substitution for Education: Twenty years ex-
tomer, and corporate objectives. Establishes short- and long-range	perience on project of similar scope and size
objectives for the project. Ensures good stewardship of all facilities,	
equipment, and environmental resources associated with the project.	
Position: Manager, Assistant Project	Minimum Years of Experience: 7
Responsibilities: Responsible for daily management and perform-	Minimum Educational/Degree Requirements:
ance of the project. Alternate point of contact with the Government	Bachelors degree in related field
for all contract issues. Enforces policies consistent with tenant, cus-	Training or Certification Requirements: None
tomer, and corporate objectives. Meets short- and long-range objec-	Substitution for Education: Fourteen years ex-
tives for the project. Ensures good stewardship of all facilities,	perience on project of similar scope and size
equipment, and environmental resources associated with the project.	
Position: Manager, Business	Minimum Years of Experience: 5
Responsibilities: Manages the organization's business process in-	Minimum Educational/Degree Requirements:
cluding budgets and cost reporting. Consolidation and distribution	Bachelors degree in related field
of budgets and related reports. Develops and administers cost policy	Training or Certification Requirements: None
and procedures. Reviews analysis of operating results, develops re-	Substitution for Education: Ten years experience
ports, and provides recommendations to management.	on project of similar scope and size
Position: Manager, Environmental	Minimum Years of Experience: 5
Responsibilities: Evaluates operations to determine compliance	Minimum Educational/Degree Requirements:
with federal, state, or local statutes as well as environmental regula-	Bachelors degree in related field
tions. Performs inspections, assesses hazards, and recommends nec-	Training or Certification Requirements: None
essary alterations to management.	Substitution for Education: Ten years experience
	on project of similar scope and size
Position: Manager, Quality	Minimum Years of Experience: 5
Responsibilities: Directs quality assurance program and ensures	Minimum Educational/Degree Requirements:
quality problems are identified and resolved. Evaluates systems, ana-	Bachelors degree in related field
lyzes data, evaluates services and technology and establishes quality	Training or Certification Requirements: None
control procedures. Oversees inspections and audits. Investigates	Substitution for Education: Ten years experience
product quality problems and recommends changes or improve-	on project of similar scope and size
ments. Maintains proper documentation and reports.	
Position: Manager, Safety	Minimum Years of Experience: 5
Responsibilities: Directs organization's safety programs to protect	Minimum Educational/Degree Requirements:
employees and the company against harm, and maintain safe working	Bachelors degree in related field
conditions. Formulates and suggest work safety standards, and en-	Training or Certification Requirements: None
forces procedures. Risk prevention areas include hazardous materials	Substitution for Education: Ten years experience
exposure, accidents, fires, or other unsafe conditions. Meets compli-	on project of similar scope and size
ance and reporting requirements of federal or state regulations. Ad-	
vises management on problem correction.	



Responsibilities: Assesses staff training requirements and creates programs to meet needs. Plans and administers training seminars such as technical skills or employee relations issues. Managing conflict resolution, team building, or employee skill evaluations might be included in responsibilities. Assesses effectiveness of training. Position: Manager, Work Control Responsibilities: Establishes procedure to Receive, record, and distribution to service crew. Schedules service call and dispatches service crew. Calls or writes customer to insure satisfactory performance of service. Reviews record of service calls and work orders. May dispatch orders and relay messages and special instructions to mobile crews and other departments, using radio telephone equipment. Supervisor Positions Position: Supervisor, Facilities Responsibilities: Provides work direction and supervision for labor categories involved in maintenance and repair work of facilities. Reviews over work requests to decide problem and resolution, and delegates assignments. Monitors work completed by outside contractors. Minimum Educational/Degree Bachelors degree in related field Training or Certification Requirements and dispatchors of Experience: Minimum Educational/Degree Bachelors degree in related field Training or Certification Requirements and project of similar scope and size on proj	rements: None a years experience te
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Substitution for Education: Ten	tederal regula-
	years experience
in similar position	
Position: Supervisor, Grounds Minimum Years of Experience:	
Responsibilities: Provides work direction and supervision for labor Minimum Educational/Degree	Requirements:
categories involved in maintenance and repair work of facility Associates degree in related field	
grounds. Reviews over work requests to decide problem and resolu-	
tion, and delegates assignments. Monitors work completed by outmay be required by local, state, or for	federal regula-
side contractors. tions	
Substitution for Education: Ten	years experience
in similar position	
Position: Supervisor, Maintenance Minimum Years of Experience:	
Responsibilities: Provides work direction and supervision for labor Minimum Educational/Degree	Requirements:
categories involved in maintenance and repair work of facility equip- Associates degree in related field	
ment. Reviews over work requests to decide problem and resolution, Training or Certification Require	
and delegates assignments. Monitors work completed by outside may be required by local, state, or for	federal regula-
contractors. tions	
Substitution for Education: Ten	years experience
in similar position	



Position: Supervisor, Plant Operations	Minimum Years of Experience: 5
Responsibilities: Provides work direction and supervision for labor	Minimum Educational/Degree Requirements:
categories involved in maintenance and repair work of facility utility	
	Associates degree in related field
plants. Reviews over work requests to decide problem and resolu-	Training or Certification Requirements: As
tion, and delegates assignments. Monitors work completed by outside contractors.	may be required by local, state, or federal regula- tions
	Substitution for Education: Ten years experience
	in similar position
	in similar position
Position: Supervisor, Structures	Minimum Years of Experience: 5
Responsibilities: Provides work direction and supervision for labor	Minimum Educational/Degree Requirements:
categories involved in maintenance and repair work of physical struc-	Associates degree in related field
tures. Reviews over work requests to decide problem and resolution,	Training or Certification Requirements: As
and delegates assignments. Monitors work completed by outside	may be required by local, state, or federal regula-
contractors.	tions
	Substitution for Education: Ten years experience
	in similar position
Position: Supervisor, Support	Minimum Years of Experience: 5
Responsibilities: Provides work direction and supervision for labor	Minimum Educational/Degree Requirements:
categories involved in providing support maintenance and repair	Associates degree in related field
work of facilities operations and maintenance. Reviews over work	Training or Certification Requirements: As
requests to decide problem and resolution, and delegates assign-	may be required by local, state, or federal regula-
ments. Monitors work completed by outside contractors.	tions
1 ,	Substitution for Education: Ten years experience
	in similar position
Position: Supervisor, Utilities	Minimum Years of Experience: 5
Responsibilities: Provides work direction and supervision for labor	Minimum Educational/Degree Requirements:
categories involved in maintenance and repair work of utilities. Re-	Associates degree in related field
views over work requests to decide problem and resolution, and dele-	Training or Certification Requirements: As
gates assignments. Monitors work completed by outside contractors.	may be required by local, state, or federal regula-
	tions
	Substitution for Education: Ten years experience
	in similar position
Lead Position	ons
Position: Lead Automotive Worker	Minimum Years of Experience: 4
Responsibilities: Performs a variety of minor repairs and services to	Minimum Educational/Degree Requirements:
maintain motor vehicles. Places and maintains decals on vehicles.	Associate degree preferred
Checks and replaces batteries. Rotates, repairs, and replaces tires.	Training or Certification Requirements: As
Washes, polishes, and cleans interiors and exteriors of vehicles.	may be required by local, state, or federal regula-
Drains, flushes, and replaces engine, transmission, and differential	tions, or specific to specialty
grease and oils. Checks, cleans, calibrates, and replaces spark plugs.	Substitution for Education: Eight years experi-
Cleans and replaces oil and air filters. Adjusts brakes, replaces wind-	ence in similar position
shield wipers, and similar minor parts. Assists on major overhaul	
jobs by disassembling and cleaning parts, repairing components such	
as generators and water pumps, and replacing thermostats, points,	
electrical wiring and other items. Maintains tools and equipment,	
and cleans work areas. May supervise others in performance of du-	
ties.	



D	Minimum Vanna CE maria and
Position: Lead Boiler Tender	Minimum Years of Experience: 4
Responsibilities: Tends one or more boilers to produce steam or	Minimum Educational/Degree Requirements:
high-temperature water for use in an establishment. Fires boiler.	Associate degree preferred
Observes and interprets readings on gauges, meters, and charts	Training or Certification Requirements: As
which register various aspects of boiler operation. Adjusts controls	may be required by local, state, or federal regula-
to insure safe and efficient boiler operation and to meet demands for	tions, or specific to specialty
steam or high-temperature water. May also do one or more of the	Substitution for Education: Eight years experi-
following: Maintain a log in which various aspects of boiler operation	ence in similar position
are recorded; clean, oil, make minor repairs or assist in repair to boiler recorded; clean, oil, make minor repairs or assist in repair to boiler	
ler room equipment; and following prescribed methods, treat boiler	
water with chemicals and analyze boiler water for such things as acid-	
ity, causticity, and alkalinity. May supervise others in performance of duties.	
	Minimum Voors of Francismos 4
Position: Lead Carpenter, Maintenance	Minimum Years of Experience: 4
Responsibilities: Performs the carpentry duties necessary to main-	Minimum Educational/Degree Requirements:
tain in good repair building woodwork and equipment such as bins,	Associate degree preferred
cribs, counters, benches, partitions, doors, floors, stairs, casings, and	Training or Certification Requirements: As
trim made of wood. Work involves most of the following: Planning	may be required by local, state, or federal regula-
and laying out of work from blueprints, drawings, models, or verbal instructions, using a variety of carpenter's hand tools, portable power	tions, or specific to specialty
tools and standard measuring instruments; making standard shop	Substitution for Education: Eight years experi-
computations relating to dimensions of work; and selecting materials	ence in similar position
necessary for the work. May supervise others in performance of du-	
ties.	
Position: Lead Electrician, Maintenance	Minimum Years of Experience: 4
Responsibilities: Performs a variety of electrical trade functions	Minimum Educational/Degree Requirements:
such as the installation, maintenance, or repair of equipment for the	Associate degree preferred
generation, distribution, or utilization of electric energy. Work in-	Training or Certification Requirements: As
volves most of the following: Installing or repairing any of a variety	may be required by local, state, or federal regula-
of electrical equipment such as generators, transformers, switch-	tions, or specific to specialty
boards, controllers, circuit breakers, motors, heating units, conduit	Substitution for Education: Eight years experi-
systems, or other transmission equipment; working from blueprints,	ence in similar position
drawings, layouts, or other specifications; locating and diagnosing	chee in similar position
trouble in the electrical system or equipment; working standard com-	
putations relating to load requirements of wiring or electrical equip-	
ment; and using a variety of electrician's hand tools and measuring	
and testing instruments. May supervise others in performance of	
duties.	
Position: Lead Environmental Technician	Minimum Years of Experience: 4
Responsibilities: Conducts tests and field investigations to obtain	Minimum Educational/Degree Requirements:
data for use by environmental, engineering, and scientific personnel	Associate degree preferred
in determining sources and methods of controlling pollutants in air,	
water, and soil, utilizing knowledge of agriculture, chemistry, meteor-	
ology, and engineering principles and applied technologies. Con-	
ducts chemical and physical laboratory and field tests according to	Training or Cartification Pagnisoments: Ac
prescribed standards to determine characteristics or composition of	Training or Certification Requirements: As
solid, liquid, or gaseous materials and substances, using pH meter,	may be required by local, state, or federal regula-
chemicals, autoclaves, centrifuge spectrophotometer, microscope,	tions, or specific to specialty
analytical instrumentation, and chemical laboratory equipment. Col-	
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lects samples of gases from smokestacks, and collects other air sam-Substitution for Education: Eight years experiples and meteorological data to assist in evaluation of atmospheric ence in similar position pollutants. Collects water samples from streams and lakes, or raw, semiprocessed or processed water, industrial waste water, or water from other sources to assess pollution problem. Collects soil, silt, or mud to determine chemical composition and nature of pollutants. Prepares sample for testing, records data, and prepares summaries and charts for review. Sets monitoring equipment to provide flow of information. Installs, operates, and performs routine maintenance on gas and fluid flow systems, chemical reaction systems, mechanical equipment, and other test instrumentation. May operate fixed or mobile monitoring or data collection station. May conduct bacteriological or other tests related to research in environmental or pollution control activity. May collect and analyze engine exhaust emissions to determine type and amount of pollutants. May specialize in one phase or type of environmental pollution or protection and be identified according to specialty. May supervise others. **Position:** Lead Forklift Operator Minimum Years of Experience: 4 Responsibilities: Operates a manually controlled gasoline, electric Minimum Educational/Degree Requirements: or liquid propane gas powered forklift to transport goods and mate-Associate degree preferred Training or Certification Requirements: As rials of all kinds about a warehouse, or other establishment. May supervise others in performance of duties. may be required by local, state, or federal regulations, or specific to specialty Substitution for Education: Eight years experience in similar position Minimum Years of Experience: 4 Position: Lead Heating, Ventilation and Air-Conditioning Mechanic Responsibilities: Installs, services and repairs environmental-Minimum Educational/Degree Requirements: control systems utilizing knowledge of refrigeration theory, pipefit-Associate degree preferred ting and structural layout. Mounts compressor and condenser units Training or Certification Requirements: As on platform or floor, using hand tools, following blueprints or engimay be required by local, state, or federal regulaneering specifications. Fabricates, assembles, and installs ductwork tions, or specific to specialty and chassis parts, using portable metalworking tools and welding Substitution for Education: Eight years experiequipment. Cuts and bends tubing to correct length and shape, using ence in similar position cutting and bending equipment and tools. Cuts and threads pipe, using machine-threading or hand-threading equipment. Joins tubing or pipes to various refrigerating units by means of sleeves, couplings, or unions, and solders joints, using torch, forming complete circuit for refrigerant. Installs expansion and discharge valves in circuit. Connects motors, compressors, temperature controls, humidity controls, and circulating ventilation fans to control panels and connects control panels to power source. Injects small amount of refrigerant into compressor to test systems and adds freon gas to build up prescribed operating pressure. Observes pressure and vacuum gauges and adjusts controls for proper operation. Tests joints and connections for gas leaks, using gauges or soap-and-water solution. Wraps pipes in insulation batting and secures them in place. Replaces defective breaker controls, thermostats, switches, fuses, and electrical wiring to repair installed units, using hand tools and test equipment. May install, repair, and service air conditioners, ranging from fifteen to twenty tons cooling capacity, in warehouses and small factory buildings. May supervise others in performance of duties.



Position: Lead Heavy Equipment Mechanic	Minimum Years of Experience: 4
Responsibilities: Analyzes malfunctions and repairs, rebuilds and	Minimum Educational/Degree Requirements:
maintains power equipment, such as cranes, power shovels, scrapers,	Associate degree preferred
paving machines, motor graders, trench-digging machines, convey-	Training or Certification Requirements: As
ors, bulldozers, dredges, pumps, compressors and pneumatic tools.	may be required by local, state, or federal regula-
Operates and inspects machines or equipment to diagnose defects.	tions, or specific to specialty
Dismantles and reassembles equipment, using hoists and hand tools.	Substitution for Education: Eight years experi-
Examines parts for damage or excessive wear, using micrometers and	ence in similar position
gauges. Replaces defective engines and subassemblies, such as	1
transmissions. Tests overhauled equipment to insure operating effi-	
ciency. Welds broken parts and structural members. May direct	
workers engaged in cleaning parts and assisting with assembly and	
disassembly of equipment. May repair, adjust, and maintain mining	
machinery, such as stripping and loading shovels, drilling and cutting	
machines, and continuous mining machines.	
Position: Lead Heavy Equipment Operator	Minimum Years of Experience: 4
Responsibilities: Operates heavy equipment such as cranes, clam-	Minimum Educational/Degree Requirements:
shells, power shovels, motor graders, heavy loaders, carryalls, bull-	Associate degree preferred
dozers, rollers, scrapers, and large industrial tractors with pan or	Training or Certification Requirements: As
scrapper attachments. Equipment is used to excavate, load or move	may be required by local, state, or federal regula-
dirt, gravel or other materials. Operator may read and interpret grade	tions, or specific to specialty
and slope stakes and simple plans. May grease, adjust, and make	Substitution for Education: Eight years experi-
emergency repairs to equipment. May supervise others in perform-	ence in similar position
ance of duties.	chee in similar position
Position: Lead Instrument Mechanic	Minimum Years of Experience: 4
Responsibilities: Installs, repairs, maintains, and adjusts indicating,	Minimum Educational/Degree Requirements:
recording, telemetering, and controlling instruments used to measure	Associate degree preferred
and control variables, such as pressure, flow, temperature, motion,	Training or Certification Requirements: As
force, and chemical composition, using hand tools and precision in-	may be required by local, state, or federal regula-
struments. Disassembles malfunctioning instruments, and examines	tions, or specific to specialty
and tests mechanism and circuitry for defects. Troubleshoots	Substitution for Education: Eight years experi-
equipment in or out of control system and replaces or repairs defec-	ence in similar position
tive parts. Reassembles instrument and tests assembly for confor-	chee in similar position
mance with specifications, using instruments, such as potentiometer,	
resistance bridge, manometer, and pressure gauge. Inspects instru-	
ments periodically and makes minor calibration adjustments to insure	
ments periodically and makes minor campiation adjustments to misure	
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functioning within specified standards. May adjust and repair final	
functioning within specified standards. May adjust and repair final control mechanisms, such as automatically controlled valves or posi-	
functioning within specified standards. May adjust and repair final control mechanisms, such as automatically controlled valves or positioners. May calibrate instruments according to established stan-	
functioning within specified standards. May adjust and repair final control mechanisms, such as automatically controlled valves or positioners. May calibrate instruments according to established standards. May supervise others in performance of duties.	Minimum Voors of Ermonion on A
functioning within specified standards. May adjust and repair final control mechanisms, such as automatically controlled valves or positioners. May calibrate instruments according to established standards. May supervise others in performance of duties. Position: Lead Locksmith	Minimum Years of Experience: 4
functioning within specified standards. May adjust and repair final control mechanisms, such as automatically controlled valves or positioners. May calibrate instruments according to established standards. May supervise others in performance of duties. Position: Lead Locksmith Responsibilities: Installs, repairs, modifies, and opens a variety of	Minimum Educational/Degree Requirements:
functioning within specified standards. May adjust and repair final control mechanisms, such as automatically controlled valves or positioners. May calibrate instruments according to established standards. May supervise others in performance of duties. Position: Lead Locksmith Responsibilities: Installs, repairs, modifies, and opens a variety of locking mechanisms found on doors, desks, compartments, mobile	Minimum Educational/Degree Requirements: Associate degree preferred
functioning within specified standards. May adjust and repair final control mechanisms, such as automatically controlled valves or positioners. May calibrate instruments according to established standards. May supervise others in performance of duties. Position: Lead Locksmith Responsibilities: Installs, repairs, modifies, and opens a variety of locking mechanisms found on doors, desks, compartments, mobile equipment, safes, and vaults. Examines locking mechanism and in-	Minimum Educational/Degree Requirements: Associate degree preferred Training or Certification Requirements: As
functioning within specified standards. May adjust and repair final control mechanisms, such as automatically controlled valves or positioners. May calibrate instruments according to established standards. May supervise others in performance of duties. Position: Lead Locksmith Responsibilities: Installs, repairs, modifies, and opens a variety of locking mechanisms found on doors, desks, compartments, mobile equipment, safes, and vaults. Examines locking mechanism and installs new unit or disassembles unit and replaces worn tumblers,	Minimum Educational/Degree Requirements: Associate degree preferred Training or Certification Requirements: As may be required by local, state, or federal regula-
functioning within specified standards. May adjust and repair final control mechanisms, such as automatically controlled valves or positioners. May calibrate instruments according to established standards. May supervise others in performance of duties. Position: Lead Locksmith Responsibilities: Installs, repairs, modifies, and opens a variety of locking mechanisms found on doors, desks, compartments, mobile equipment, safes, and vaults. Examines locking mechanism and installs new unit or disassembles unit and replaces worn tumblers, springs, and other parts or repairs them by filing, drilling, chiseling	Minimum Educational/Degree Requirements: Associate degree preferred Training or Certification Requirements: As may be required by local, state, or federal regulations, or specific to specialty
functioning within specified standards. May adjust and repair final control mechanisms, such as automatically controlled valves or positioners. May calibrate instruments according to established standards. May supervise others in performance of duties. Position: Lead Locksmith Responsibilities: Installs, repairs, modifies, and opens a variety of locking mechanisms found on doors, desks, compartments, mobile equipment, safes, and vaults. Examines locking mechanism and installs new unit or disassembles unit and replaces worn tumblers, springs, and other parts or repairs them by filing, drilling, chiseling and grinding. Opens door locks by moving lockpick in cylinder or	Minimum Educational/Degree Requirements: Associate degree preferred Training or Certification Requirements: As may be required by local, state, or federal regulations, or specific to specialty Substitution for Education: Eight years experi-
functioning within specified standards. May adjust and repair final control mechanisms, such as automatically controlled valves or positioners. May calibrate instruments according to established standards. May supervise others in performance of duties. Position: Lead Locksmith Responsibilities: Installs, repairs, modifies, and opens a variety of locking mechanisms found on doors, desks, compartments, mobile equipment, safes, and vaults. Examines locking mechanism and installs new unit or disassembles unit and replaces worn tumblers, springs, and other parts or repairs them by filing, drilling, chiseling and grinding. Opens door locks by moving lockpick in cylinder or opens safe locks by listening to lock sounds or by drilling. Makes	Minimum Educational/Degree Requirements: Associate degree preferred Training or Certification Requirements: As may be required by local, state, or federal regulations, or specific to specialty
functioning within specified standards. May adjust and repair final control mechanisms, such as automatically controlled valves or positioners. May calibrate instruments according to established standards. May supervise others in performance of duties. Position: Lead Locksmith Responsibilities: Installs, repairs, modifies, and opens a variety of locking mechanisms found on doors, desks, compartments, mobile equipment, safes, and vaults. Examines locking mechanism and installs new unit or disassembles unit and replaces worn tumblers, springs, and other parts or repairs them by filing, drilling, chiseling and grinding. Opens door locks by moving lockpick in cylinder or opens safe locks by listening to lock sounds or by drilling. Makes new or duplicate keys, using key cutting machine. Changes combina-	Minimum Educational/Degree Requirements: Associate degree preferred Training or Certification Requirements: As may be required by local, state, or federal regulations, or specific to specialty Substitution for Education: Eight years experi-
functioning within specified standards. May adjust and repair final control mechanisms, such as automatically controlled valves or positioners. May calibrate instruments according to established standards. May supervise others in performance of duties. Position: Lead Locksmith Responsibilities: Installs, repairs, modifies, and opens a variety of locking mechanisms found on doors, desks, compartments, mobile equipment, safes, and vaults. Examines locking mechanism and installs new unit or disassembles unit and replaces worn tumblers, springs, and other parts or repairs them by filing, drilling, chiseling and grinding. Opens door locks by moving lockpick in cylinder or opens safe locks by listening to lock sounds or by drilling. Makes	Minimum Educational/Degree Requirements: Associate degree preferred Training or Certification Requirements: As may be required by local, state, or federal regulations, or specific to specialty Substitution for Education: Eight years experi-



Position: Lead Machinery Maintenance Mechanic	Minimum Years of Experience: 4
Responsibilities: Repairs machinery or mechanical equipment.	Minimum Educational/Degree Requirements:
Work involves most of the following: Examining machines and me-	Associate degree preferred
chanical equipment to diagnose source of trouble; dismantling or	Training or Certification Requirements: As
partly dismantling machines and performing repairs that mainly in-	may be required by local, state, or federal regula-
volve the use of hand tools in scraping and fitting parts; replacing	tions, or specific to specialty
broken or defective parts with items obtained from stock; ordering	Substitution for Education: Eight years experi-
the production of a replacement part by a machine shop or sending	ence in similar position
the machine to a machine shop for major repairs; preparing written	1
specifications for major repairs or for the production of parts or-	
dered from machine shops; reassembling machines and making all	
necessary adjustments for operation. May supervise others in per-	
formance of duties.	
Position: Lead Machinist, Maintenance	Minimum Years of Experience: 4
Responsibilities: Produces replacement parts and new parts in mak-	Minimum Educational/Degree Requirements:
ing repairs of metal parts of mechanical equipment. Work involves	Associate degree preferred
most of the following: Interpreting written instructions and specifica-	Training or Certification Requirements: As
tions; planning and laying out of work; using a variety of machinist's	may be required by local, state, or federal regula-
hand tools and precision measuring instruments; setting up and op-	tions, or specific to specialty
erating standard machine tools; shaping of metal parts to close toler-	Substitution for Education: Eight years experi-
ances; making standard shop computations relating to dimensions of	ence in similar position
work, tooling, feeds, and speeds of machining; knowledge of the	chec in similar position
working properties of the common metals; selecting standard materi-	
als, parts, and equipment required for this work; and fitting and as-	
sembling parts into mechanical equipment. May supervise others in	
performance of duties.	
Position: Lead Painter, Maintenance	Minimum Years of Experience: 4
Responsibilities: Paints and redecorates walls, woodwork and fix-	Minimum Educational/Degree Requirements:
tures. Work involves the following: Knowledge of surface peculiari-	Associate degree preferred
ties and types of paint required for different applications; preparing	Training or Certification Requirements: As
surface for painting by removing old finish or by placing putty or	may be required by local, state, or federal regula-
filler in nail holes and interstices; and applying paint with spray gun	tions, or specific to specialty
or brush. May mix colors, oils, white lead, and other paint ingredi-	Substitution for Education: Eight years experi-
ents to obtain proper color or consistency. May supervise others in	
performance of duties.	ence in similar position
<u> </u>	Minimum Vanna of Francisco and
Position: Lead Pest Controller	Minimum Years of Experience: 4
Position: Lead Pest Controller Responsibilities: Sprays chemical solutions or toxic gases and sets	Minimum Educational/Degree Requirements:
Position: Lead Pest Controller Responsibilities: Sprays chemical solutions or toxic gases and sets mechanical traps to kill pests that infest buildings and surrounding	Minimum Educational/Degree Requirements: Associate degree preferred
Position: Lead Pest Controller Responsibilities: Sprays chemical solutions or toxic gases and sets mechanical traps to kill pests that infest buildings and surrounding areas. Fumigates rooms and buildings, using toxic gases. Sprays	Minimum Educational/Degree Requirements: Associate degree preferred Training or Certification Requirements: As
Position: Lead Pest Controller Responsibilities: Sprays chemical solutions or toxic gases and sets mechanical traps to kill pests that infest buildings and surrounding areas. Fumigates rooms and buildings, using toxic gases. Sprays chemical solutions or dusts powders in rooms and work areas. Plac-	Minimum Educational/Degree Requirements: Associate degree preferred Training or Certification Requirements: As may be required by local, state, or federal regula-
Position: Lead Pest Controller Responsibilities: Sprays chemical solutions or toxic gases and sets mechanical traps to kill pests that infest buildings and surrounding areas. Fumigates rooms and buildings, using toxic gases. Sprays chemical solutions or dusts powders in rooms and work areas. Places poisonous paste or bait and mechanical traps where pests are pre-	Minimum Educational/Degree Requirements: Associate degree preferred Training or Certification Requirements: As may be required by local, state, or federal regulations, or specific to specialty
Position: Lead Pest Controller Responsibilities: Sprays chemical solutions or toxic gases and sets mechanical traps to kill pests that infest buildings and surrounding areas. Fumigates rooms and buildings, using toxic gases. Sprays chemical solutions or dusts powders in rooms and work areas. Places poisonous paste or bait and mechanical traps where pests are present. May clean areas that harbor pests, using rakes, brooms, shov-	Minimum Educational/Degree Requirements: Associate degree preferred Training or Certification Requirements: As may be required by local, state, or federal regulations, or specific to specialty Substitution for Education: Eight years experi-
Position: Lead Pest Controller Responsibilities: Sprays chemical solutions or toxic gases and sets mechanical traps to kill pests that infest buildings and surrounding areas. Fumigates rooms and buildings, using toxic gases. Sprays chemical solutions or dusts powders in rooms and work areas. Places poisonous paste or bait and mechanical traps where pests are present. May clean areas that harbor pests, using rakes, brooms, shovels, and mops preparatory to fumigating. May supervise others in	Minimum Educational/Degree Requirements: Associate degree preferred Training or Certification Requirements: As may be required by local, state, or federal regulations, or specific to specialty
Position: Lead Pest Controller Responsibilities: Sprays chemical solutions or toxic gases and sets mechanical traps to kill pests that infest buildings and surrounding areas. Fumigates rooms and buildings, using toxic gases. Sprays chemical solutions or dusts powders in rooms and work areas. Places poisonous paste or bait and mechanical traps where pests are present. May clean areas that harbor pests, using rakes, brooms, shovels, and mops preparatory to fumigating. May supervise others in performance of duties.	Minimum Educational/Degree Requirements: Associate degree preferred Training or Certification Requirements: As may be required by local, state, or federal regulations, or specific to specialty Substitution for Education: Eight years experience in similar position
Position: Lead Pest Controller Responsibilities: Sprays chemical solutions or toxic gases and sets mechanical traps to kill pests that infest buildings and surrounding areas. Fumigates rooms and buildings, using toxic gases. Sprays chemical solutions or dusts powders in rooms and work areas. Places poisonous paste or bait and mechanical traps where pests are present. May clean areas that harbor pests, using rakes, brooms, shovels, and mops preparatory to fumigating. May supervise others in performance of duties. Position: Lead Pipefitter, Maintenance	Minimum Educational/Degree Requirements: Associate degree preferred Training or Certification Requirements: As may be required by local, state, or federal regulations, or specific to specialty Substitution for Education: Eight years experience in similar position Minimum Years of Experience: 4
Position: Lead Pest Controller Responsibilities: Sprays chemical solutions or toxic gases and sets mechanical traps to kill pests that infest buildings and surrounding areas. Fumigates rooms and buildings, using toxic gases. Sprays chemical solutions or dusts powders in rooms and work areas. Places poisonous paste or bait and mechanical traps where pests are present. May clean areas that harbor pests, using rakes, brooms, shovels, and mops preparatory to fumigating. May supervise others in performance of duties. Position: Lead Pipefitter, Maintenance Responsibilities: Installs or repairs water, steam, gas or other types	Minimum Educational/Degree Requirements: Associate degree preferred Training or Certification Requirements: As may be required by local, state, or federal regulations, or specific to specialty Substitution for Education: Eight years experience in similar position
Position: Lead Pest Controller Responsibilities: Sprays chemical solutions or toxic gases and sets mechanical traps to kill pests that infest buildings and surrounding areas. Fumigates rooms and buildings, using toxic gases. Sprays chemical solutions or dusts powders in rooms and work areas. Places poisonous paste or bait and mechanical traps where pests are present. May clean areas that harbor pests, using rakes, brooms, shovels, and mops preparatory to fumigating. May supervise others in performance of duties. Position: Lead Pipefitter, Maintenance	Minimum Educational/Degree Requirements: Associate degree preferred Training or Certification Requirements: As may be required by local, state, or federal regulations, or specific to specialty Substitution for Education: Eight years experience in similar position Minimum Years of Experience: 4
Position: Lead Pest Controller Responsibilities: Sprays chemical solutions or toxic gases and sets mechanical traps to kill pests that infest buildings and surrounding areas. Fumigates rooms and buildings, using toxic gases. Sprays chemical solutions or dusts powders in rooms and work areas. Places poisonous paste or bait and mechanical traps where pests are present. May clean areas that harbor pests, using rakes, brooms, shovels, and mops preparatory to fumigating. May supervise others in performance of duties. Position: Lead Pipefitter, Maintenance Responsibilities: Installs or repairs water, steam, gas or other types	Minimum Educational/Degree Requirements: Associate degree preferred Training or Certification Requirements: As may be required by local, state, or federal regulations, or specific to specialty Substitution for Education: Eight years experience in similar position Minimum Years of Experience: 4 Minimum Educational/Degree Requirements:
Position: Lead Pest Controller Responsibilities: Sprays chemical solutions or toxic gases and sets mechanical traps to kill pests that infest buildings and surrounding areas. Fumigates rooms and buildings, using toxic gases. Sprays chemical solutions or dusts powders in rooms and work areas. Places poisonous paste or bait and mechanical traps where pests are present. May clean areas that harbor pests, using rakes, brooms, shovels, and mops preparatory to fumigating. May supervise others in performance of duties. Position: Lead Pipefitter, Maintenance Responsibilities: Installs or repairs water, steam, gas or other types of pipe and pipefittings. Work involves most of the following: Lay-	Minimum Educational/Degree Requirements: Associate degree preferred Training or Certification Requirements: As may be required by local, state, or federal regulations, or specific to specialty Substitution for Education: Eight years experience in similar position Minimum Years of Experience: 4 Minimum Educational/Degree Requirements:
Position: Lead Pest Controller Responsibilities: Sprays chemical solutions or toxic gases and sets mechanical traps to kill pests that infest buildings and surrounding areas. Fumigates rooms and buildings, using toxic gases. Sprays chemical solutions or dusts powders in rooms and work areas. Places poisonous paste or bait and mechanical traps where pests are present. May clean areas that harbor pests, using rakes, brooms, shovels, and mops preparatory to fumigating. May supervise others in performance of duties. Position: Lead Pipefitter, Maintenance Responsibilities: Installs or repairs water, steam, gas or other types of pipe and pipefittings. Work involves most of the following: Laying out work and measuring to locate position of pipe from drawings	Minimum Educational/Degree Requirements: Associate degree preferred Training or Certification Requirements: As may be required by local, state, or federal regulations, or specific to specialty Substitution for Education: Eight years experience in similar position Minimum Years of Experience: 4 Minimum Educational/Degree Requirements: Associate degree preferred



machines; threading pipe with stocks and dies, bending pipe by hand-Substitution for Education: Eight years experidriven or power-driven machines; assembling pipe with couplings ence in similar position and fastening pipe to hangers; making standard shop computations relating to pressures, flow and size of pipe required; and making standard tests to determine whether finished pipes meet specifications. May supervise others in performance of duties. Position: Lead Plumber, Maintenance Minimum Years of Experience: 4 Minimum Educational/Degree Requirements: Responsibilities: Assembles, installs, and repairs pipes, fittings and fixtures of heating, water, and drainage systems, according to specifi-Associate degree preferred Training or Certification Requirements: As cations and plumbing codes. Studies building plans and working drawings to determine work aids required and sequence of installamay be required by local, state, or federal regulations. Inspects structure to ascertain obstructions to be avoided to tions, or specific to specialty prevent weakening of structure resulting from installation of pipe. Substitution for Education: Eight years experi-Locates and marks position of pipe and pipe connections and pasence in similar position sage holes for pipes in walls and floors, using ruler, spirit level, and plumb bob. Cuts openings in walls and floors to accommodate pipe and pipe fittings, using hand tools and power tools. Cuts and threads pipe, using pipe cutters, cutting torch, and pipe-threading machine. Bends pipe to required angle by use of pipe-bending machine or by placing pipe over block and bending it by hand. Assembles and installs valves, pipe fittings, and pipes composed of metals, such as iron, steel, brass and lead, and nonmetals, such as glass, vitrified clay, and plastic, using hand tools and power tools. Joins pipe by use of screws, bolts, fittings, solder, plastic solvent, and calks joints. Fills pipe system with water or air and reads pressure gauges to determine whether system is leaking. Installs and repairs plumbing fixtures, such as sinks, commodes, bathtubs, water heaters, hot water tanks, garbage disposal units, dishwashers, and water softeners. Repairs and maintains plumbing by replacing washers in leaky faucets, mending burst pipes, and opening clogged drains. May weld holding fixtures to steel structural members. May supervise others. **Position:** Lead Service Order Dispatcher Minimum Years of Experience: 4 Minimum Educational/Degree Requirements: Responsibilities: Receives, records, and distributes work orders to service crews upon customers' requests for service on articles or utili-Associate degree preferred ties purchased from wholesale or retail establishment or utility com-Training or Certification Requirements: As pany. Records information, such as name, address, article to be remay be required by local, state, or federal regulapaired, or service to be rendered. Prepares work order and distribtions, or specific to specialty utes to service crew. Schedules service call and dispatches service Substitution for Education: Eight years expericrew. Calls or writes customer to insure satisfactory performance of ence in similar position service. Keeps record of service calls and work orders. May dispatch orders and relay messages and special instructions to mobile crews and other departments, using radio telephone equipment. May supervise others in performance of duties. Position: Lead Sewage Plant Operator Minimum Years of Experience: 4 Responsibilities: Operates sewage treatment, sludge processing, and Minimum Educational/Degree Requirements: disposal equipment in wastewater (sewage) treatment plant to control Associate degree preferred Training or Certification Requirements: As flow and processing of sewage: Monitors control panels and adjusts valves and gates manually or by remote control to regulate flow of may be required by local, state, or federal regulasewage. Observes variations in operating conditions and interprets tions, or specific to specialty meter and gauge readings, and tests results to determine load re-Substitution for Education: Eight years experiquirements. Starts and stops pumps, engines and generators to conence in similar position



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trol flow of raw sewage through filtering, settling, aeration, and	
sludge digestion processes. Maintains log of operations and records	
meter and gas readings. Gives directions to wastewater treatment-	
plant attendants and sewage-disposal workers in performing routine operations and maintenance. May operate and maintain power gen-	
erating equipment to provide steam and electricity for plant. May	
supervise others in performance of duties.	Minimum Voors of Function as A
Position: Lead Sheet-Metal Worker, Maintenance	Minimum Years of Experience: 4
Responsibilities: Fabricates, installs and maintains in good repair	Minimum Educational/Degree Requirements:
the sheet-metal equipment and fixtures (such as machine guards,	Associate degree preferred
grease pans, shelves, lockers, tanks, ventilators, chutes, ducts, metal	Training or Certification Requirements: As
roofing) of an establishment. Work involves most of the following:	may be required by local, state, or federal regula-
Planning and laying out all types of sheet-metal maintenance work	tions, or specific to specialty
from blueprints, models, or other specifications; setting up and oper-	Substitution for Education: Eight years experi-
ating all available types of sheet-metal working machines; using a va-	ence in similar position
riety of hand tools in cutting, bending, forming, shaping, fitting and	
assembling; and installing sheet-metal articles as required. May su-	
pervise others in performance of duties.	Minimum Voors of Even seion see 4
Position: Lead Stationary Engineer	Minimum Years of Experience: 4
Responsibilities: Operates and maintains one or more systems	Minimum Educational/Degree Requirements:
which provide an establishment with such services as heat, air-	Associate degree preferred
conditioning (cool, humidify, dehumidify, filter, and circulate air),	Training or Certification Requirements: As
refrigeration, steam or high-temperature water or electricity. Duties	may be required by local, state, or federal regula-
involve: Observing and interpreting readings on gauges, meters and	tions, or specific to specialty
charts which register various aspects of the system's operation, ad-	Substitution for Education: Eight years experi-
justing controls to insure safe and efficient operation of the system and to meet demands for the service provided; recording in logs var-	ence in similar position
ious aspects of the system's operation; keeping the engines, machin-	
ery and equipment of the system in good working order. May direct	
and coordinate activities of other workers (not stationary engineers)	
in performing tasks directly related to operating and maintaining the	
system or systems. May supervise others in performance of duties.	
Position: Lead Supply Technician	Minimum Years of Experience: 4
Responsibilities: Performs limited aspects of technical supply man-	Minimum Educational/Degree Requirements:
agement work (e.g., inventory management, storage management,	Associate degree preferred
cataloging, property utilization) related to depot, local, or other sup-	Training or Certification Requirements: As
ply activities. Work usually is segregated by commodity area or func-	may be required by local, state, or federal regula-
tion, and controlled in terms of difficulty, complexity, or responsibil-	tions, or specific to specialty
ity. Assignments usually relate to stable or standardized segments of	Substitution for Education: Eight years experi-
technical supply management operations; or to functions or subjects	ence in similar position
that are narrow in scope or limited in difficulty. May supervise oth-	chee in similar position
ers in performance of duties.	
Position: Lead Warehouse Specialist	Minimum Years of Experience: 4
Responsibilities: Directs and performs a variety of warehousing	Minimum Educational/Degree Requirements:
duties which require an understanding of the establishment's storage	Associate degree preferred
plan. Work involves most of the following: Verifying materials (or	Training or Certification Requirements: As
merchandise) against receiving documents, noting and reporting dis-	may be required by local, state, or federal regula-
crepancies and obvious damages; routing materials to prescribed sto-	tions, or specific to specialty
rage locations; storing, stacking, or palletizing materials in accordance	Substitution for Education: Eight years experi-
with prescribed storage methods; rearranging and taking inventory of	ence in similar position
stored materials; examining stored materials and reporting deteriora-	chee in similar position
otorea materiais, examining storea materiais and reporting deteriora-	



tion and damage; removing material from storage and preparing it for shipment. May operate hand or power trucks in performing warehousing duties. May supervise others in performance of duties. Position: Lead Water Treatment Plant Operator Minimum Years of Experience: 4 Responsibilities: Controls treatment plant machines and equipment Minimum Educational/Degree Requirements: to purify and clarify water for human consumption and for industrial Associate degree preferred Training or Certification Requirements: As use. Operates and controls electric motors, pumps, and valves to regulate flow of raw water into treating plant. Dumps specified may be required by local, state, or federal regulaamounts of chemicals, such as chlorine, ammonia, and lime into wations, or specific to specialty ter or adjusts automatic devices that admit specified amounts of Substitution for Education: Eight years experichemicals into tanks to disinfect, deodorize, and clarify water. Starts ence in similar position agitators to mix chemicals and allows impurities to settle to bottom of tank. Turns valves to regulate water through filter beds to remove impurities. Pumps purified water into water mains. Monitors panelboard and adjusts controls to regulator flow rates, loss of head pressure and water elevation and distribution of water. Cleans tanks and filter beds, using backwashing (reverse flow of water). Repairs and lubricates machines and equipment, using hand- and power tools. Tests water samples to determine acidity, color, and impurities, using colorimeter, turbidimeter, and conductivity meter. Dumps chemicals such as alum into tanks to coagulate impurities and reduce acidity. Records data, such as residual content of chemicals, water turbidity, and water pressure. May operate portable water-purification plant to supply drinking water. May purify waste water from plant preparatory to pumping water into rivers and steams or city mains. May supervise others in performance of duties. Position: Lead Welder, Combination, Maintenance Minimum Years of Experience: 4 Responsibilities: Welds metal components together to fabricate or Minimum Educational/Degree Requirements: repair products, such as machine parts, plant equipment, mobile Associate degree preferred Training or Certification Requirements: As homes, motors and generators, according to layouts, blueprints or work orders, using brazing and a variety of arc and gas welding may be required by local, state, or federal regulaequipment. Welds metal parts together, using both gas welding or tions, or specific to specialty brazing and any combination of arc welding processes. Performs Substitution for Education: Eight years experirelated tasks such as thermal cutting and grinding. Repairs broken or ence in similar position cracked parts, fills holes, and increases size of metal parts. Positions and clamps together components of fabricated metal products preparatory to welding. May locate and repair cracks in industrial engine cylinder heads, using inspection equipment and gas torch. May perform repairs only. May be required to pass employer performance tests or standard tests to meet certification standards of governmental agencies or professional and technical associations. May supervise others in performance of duties.



Trade, Technical, and Cl	erical Positions
Position: Accounting Clerk I	Minimum Years of Experience: 2
Responsibilities: Performs one or more accounting tasks such as	Minimum Educational/Degree Requirements:
posting to registers and ledgers; balancing and reconciling accounts;	High school diploma, or GED; college courses
verifying the internal consistency, completeness, and mathematical	preferred
accuracy of accounting documents; assigning prescribed accounting	Training or Certification Requirements: As
distribution codes; examining and verifying the clerical accuracy of	may be required by local, state, or federal regula-
various types of reports, lists, calculations, postings, etc.; preparing	tions, or specific to specialty
journal vouchers; or making entries or adjustments to accounts. Per-	Substitution for Education: Technical training at
forms very simple and routine accounting clerical operations, for ex-	commensurate level
ample, recognizing and comparing easily identified numbers and	
codes on similar and repetitive accounting documents, verifying ma-	
thematical accuracy, and identifying discrepancies and bringing them	
to the higher level clerk's attention.	
Position: Accounting Clerk II	Minimum Years of Experience: 3
Responsibilities: Performs one or more accounting tasks such as	Minimum Educational/Degree Requirements:
posting to registers and ledgers; balancing and reconciling accounts;	High school diploma, or GED; college courses
verifying the internal consistency, completeness, and mathematical	preferred
accuracy of accounting documents; assigning prescribed accounting	Training or Certification Requirements: As
distribution codes; examining and verifying the clerical accuracy of	may be required by local, state, or federal regula-
various types of reports, lists, calculations, postings, etc.; preparing	tions, or specific to specialty
journal vouchers; or making entries or adjustments to accounts. Per-	Substitution for Education: Technical training at
forms one or more routine accounting clerical operations, such as:	commensurate level
examining, verifying, and correcting accounting transactions to insure	
completeness and accuracy of data and proper identification of ac-	
counts, and checking that expenditures will not exceed obligations in	
specified accounts; totaling, balancing, and reconciling collection	
vouchers; posting data to transaction sheets where employee identi-	
fies proper accounts and items to be posted; and coding documents	
in accordance with a chart (listing) of accounts. Employee follows	
specific and detailed accounting procedures.	
Position: Accounting Clerk III	Minimum Years of Experience: 4
Responsibilities: Performs one or more accounting tasks such as	Minimum Educational/Degree Requirements:
posting to registers and ledgers; balancing and reconciling accounts;	High school diploma, or GED; college courses
verifying the internal consistency, completeness, and mathematical	preferred
accuracy of accounting documents; assigning prescribed accounting	Training or Certification Requirements: As
distribution codes; examining and verifying the clerical accuracy of	may be required by local, state, or federal regula-
various types of reports, lists, calculations, postings, etc.; preparing	tions, or specific to specialty
journal vouchers; or making entries or adjustments to accounts. Uses	
a knowledge of double entry bookkeeping in performing one or	
more of the following: Posts actions to journals, Identifying subsidi-	
ary accounts affected and debit and credit entries to be made and	
assigning proper codes; Reviews computer printouts against manually	
maintained journals, detecting and correcting erroneous postings,	
Preparing documents to adjust accounting classifications and other	
data; or reviews lists of transactions rejected by an automated system,	
determining reasons for rejections, and preparing necessary correct-	
ing material. On routine assignments, employee selects and applies	
established procedures and techniques.	
journal vouchers; or making entries or adjustments to accounts. Uses a knowledge of double entry bookkeeping in performing one or more of the following: Posts actions to journals, Identifying subsidiary accounts affected and debit and credit entries to be made and assigning proper codes; Reviews computer printouts against manually maintained journals, detecting and correcting erroneous postings, Preparing documents to adjust accounting classifications and other data; or reviews lists of transactions rejected by an automated system, determining reasons for rejections, and preparing necessary correcting material. On routine assignments, employee selects and applies	Substitution for Education: Technical training at commensurate level



Position: Administrative Assistant	Minimum Years of Experience: 4
Responsibilities: In addition to secretarial duties (filing, taking	Minimum Educational/Degree Requirements:
phone calls, scheduling appointments, making travel arrangements),	High school diploma, or GED; college courses
this position will provide administrative support to executive staff	preferred
with office management responsibilities to include budgeting, per-	Training or Certification Requirements: As
sonnel records and payroll. May be required to work independently	may be required by local, state, or federal regula-
on projects requiring research and preparation of briefing charts and	tions, or specific to specialty
other presentation materials.	Substitution for Education: Technical training at
other presentation materials.	C C
Design Al Maria	commensurate level
Position: Alarm Monitor	Minimum Years of Experience: 2
Responsibilities: Operates communication equipment to receive	Minimum Educational/Degree Requirements:
incoming calls for assistance and dispatches personnel and equip-	High school diploma, or GED; college courses
ment. Operates telephone console to receive incoming calls for as-	preferred
sistance. Questions caller to determine nature of problem and type	Training or Certification Requirements: As
and number of personnel and equipment needed, following estab-	may be required by local, state, or federal regula-
lished guidelines. Scans status charts and computer screen to deter-	tions, or specific to specialty
mine resources available. Monitors alarm system signals that indicate	Substitution for Education: Technical training at
location of problem. Operates two-way radio to dispatch personnel	commensurate level
and equipment and to relay instructions or information. Types	
commands on computer keyboard to update files and maintain logs.	
Tests communications and alarm equipment and backup systems to	
ensure serviceability.	
Position: Automotive Worker	Minimum Years of Experience: 2
Responsibilities: Performs a variety of minor repairs and services to	Minimum Educational/Degree Requirements:
maintain motor vehicles. Places and maintains decals on vehicles.	High school diploma, or GED; college courses
Checks and replaces batteries. Rotates, repairs, and replaces tires.	preferred
Washes, polishes, and cleans interiors and exteriors of vehicles.	Training or Certification Requirements: As
Drains, flushes, and replaces engine, transmission, and differential	may be required by local, state, or federal regula-
grease and oils. Checks, cleans, calibrates, and replaces spark plugs.	tions, or specific to specialty; Automotive Service
Cleans and replaces oil and air filters. Adjusts brakes, replaces wind-	Excellence (ASE)
shield wipers, and similar minor parts. Assists on major overhaul	Substitution for Education: Technical training at
jobs by disassembling and cleaning parts, repairing components such	commensurate level
as generators and water pumps, and replacing thermostats, points,	
electrical wiring and other items. Maintains tools and equipment,	
and cleans work areas.	
and cleans work areas. Position: Boiler Tender	Minimum Years of Experience: 2
and cleans work areas. Position: Boiler Tender Responsibilities: Tends one or more boilers to produce steam or	Minimum Educational/Degree Requirements:
and cleans work areas. Position: Boiler Tender Responsibilities: Tends one or more boilers to produce steam or high-temperature water for use in an establishment. Fires boiler.	
and cleans work areas. Position: Boiler Tender Responsibilities: Tends one or more boilers to produce steam or high-temperature water for use in an establishment. Fires boiler. Observes and interprets readings on gauges, meters, and charts	Minimum Educational/Degree Requirements: High school diploma, or GED; college courses preferred
and cleans work areas. Position: Boiler Tender Responsibilities: Tends one or more boilers to produce steam or high-temperature water for use in an establishment. Fires boiler. Observes and interprets readings on gauges, meters, and charts which register various aspects of boiler operation. Adjusts controls	Minimum Educational/Degree Requirements: High school diploma, or GED; college courses preferred Training or Certification Requirements: As
and cleans work areas. Position: Boiler Tender Responsibilities: Tends one or more boilers to produce steam or high-temperature water for use in an establishment. Fires boiler. Observes and interprets readings on gauges, meters, and charts which register various aspects of boiler operation. Adjusts controls to insure safe and efficient boiler operation and to meet demands for	Minimum Educational/Degree Requirements: High school diploma, or GED; college courses preferred Training or Certification Requirements: As may be required by local, state, or federal regula-
and cleans work areas. Position: Boiler Tender Responsibilities: Tends one or more boilers to produce steam or high-temperature water for use in an establishment. Fires boiler. Observes and interprets readings on gauges, meters, and charts which register various aspects of boiler operation. Adjusts controls to insure safe and efficient boiler operation and to meet demands for steam or high-temperature water. May also do one or more of the	Minimum Educational/Degree Requirements: High school diploma, or GED; college courses preferred Training or Certification Requirements: As
and cleans work areas. Position: Boiler Tender Responsibilities: Tends one or more boilers to produce steam or high-temperature water for use in an establishment. Fires boiler. Observes and interprets readings on gauges, meters, and charts which register various aspects of boiler operation. Adjusts controls to insure safe and efficient boiler operation and to meet demands for steam or high-temperature water. May also do one or more of the following: Maintain a log in which various aspects of boiler operation	Minimum Educational/Degree Requirements: High school diploma, or GED; college courses preferred Training or Certification Requirements: As may be required by local, state, or federal regula-
and cleans work areas. Position: Boiler Tender Responsibilities: Tends one or more boilers to produce steam or high-temperature water for use in an establishment. Fires boiler. Observes and interprets readings on gauges, meters, and charts which register various aspects of boiler operation. Adjusts controls to insure safe and efficient boiler operation and to meet demands for steam or high-temperature water. May also do one or more of the following: Maintain a log in which various aspects of boiler operation are recorded; clean, oil, make minor repairs or assist in repair to boi-	Minimum Educational/Degree Requirements: High school diploma, or GED; college courses preferred Training or Certification Requirements: As may be required by local, state, or federal regulations, or specific to specialty
and cleans work areas. Position: Boiler Tender Responsibilities: Tends one or more boilers to produce steam or high-temperature water for use in an establishment. Fires boiler. Observes and interprets readings on gauges, meters, and charts which register various aspects of boiler operation. Adjusts controls to insure safe and efficient boiler operation and to meet demands for steam or high-temperature water. May also do one or more of the following: Maintain a log in which various aspects of boiler operation are recorded; clean, oil, make minor repairs or assist in repair to boiler room equipment; and following prescribed methods, treat boiler	Minimum Educational/Degree Requirements: High school diploma, or GED; college courses preferred Training or Certification Requirements: As may be required by local, state, or federal regulations, or specific to specialty Substitution for Education: Technical training at
and cleans work areas. Position: Boiler Tender Responsibilities: Tends one or more boilers to produce steam or high-temperature water for use in an establishment. Fires boiler. Observes and interprets readings on gauges, meters, and charts which register various aspects of boiler operation. Adjusts controls to insure safe and efficient boiler operation and to meet demands for steam or high-temperature water. May also do one or more of the following: Maintain a log in which various aspects of boiler operation are recorded; clean, oil, make minor repairs or assist in repair to boi-	Minimum Educational/Degree Requirements: High school diploma, or GED; college courses preferred Training or Certification Requirements: As may be required by local, state, or federal regulations, or specific to specialty Substitution for Education: Technical training at



Position: Carpenter, Maintenance	Minimum Years of Experience: 2
Responsibilities: Performs the carpentry duties necessary to main-	Minimum Educational/Degree Requirements:
tain in good repair building woodwork and equipment such as bins,	High school diploma, or GED; college courses
cribs, counters, benches, partitions, doors, floors, stairs, casings, and	preferred
trim made of wood. Work involves most of the following: Planning	Training or Certification Requirements: As
and laying out of work from blueprints, drawings, models, or verbal	may be required by local, state, or federal regula-
instructions, using a variety of carpenter's hand tools, portable power	tions, or specific to specialty
tools and standard measuring instruments; making standard shop	Substitution for Education: Technical training at
computations relating to dimensions of work; and selecting materials	commensurate level
necessary for the work.	
Position: Carpet Layer	Minimum Years of Experience: 2
Responsibilities: Prepares floor by removing old carpet or other	Minimum Educational/Degree Requirements:
covering, stripping, patching, or cleaning floor. Measures and cuts	High school diploma, or GED; college courses
carpeting to size, using carpet knife. Lays padding and places carpet-	preferred
ing on top of padding. Cuts, trims, and stretches carpeting to fit	Training or Certification Requirements: As
along wall edges, openings, and projections. Installs metal edging	may be required by local, state, or federal regula-
and metal door strips. May lay carpet tiles, applying adhesive to	tions, or specific to specialty
floor. May transport carpeting to installation site.	Substitution for Education: Technical training at
	commensurate level
Position: Civil Engineering Technician	Minimum Years of Experience: 2
Responsibilities: Assists Civil Engineer in application of principles,	Minimum Educational/Degree Requirements:
methods, and techniques of civil engineering technology. Reviews	High school diploma, or GED; college courses
project specifications and confers with Civil Engineer concerning	preferred
assistance required, such as plan preparation, acceptance testing,	
evaluation of field conditions, design changes, and reports. Conducts	
materials testing and analysis, using tools and equipment and apply-	Training or Certification Requirements: As
ing engineering knowledge necessary to conduct tests. Prepares re-	may be required by local, state, or federal regula-
ports detailing tests conducted and their results. Surveys project sites	tions, or specific to specialty
to obtain and analyze topographical details of sites, using maps and	
surveying equipment. Drafts detailed dimensional drawings such as	Substitution for Education: Technical training at
those needed for highway plans, structural steel fabrication, and wa-	
ter control projects, performing duties as described under Drafter.	commensurate level
Calculates dimensions, profile specifications, and quantities of mate-	
rials such as steel, concrete, and asphalt, using calculator.	
Position: Computer Operator I	Minimum Years of Experience: 2
Responsibilities: Works under close personal supervision and is	Minimum Educational/Degree Requirements:
provided detailed written or oral guidance before and during assign-	High school diploma, or GED; college courses
ments. As instructed, resolves common operating problems. May	preferred
serve as an assistant operator working under close supervision or	Training or Certification Requirements: As
performing a portion of a more senior operator's work.	may be required by local, state, or federal regula-
	tions, or specific to specialty
	Substitution for Education: Technical training at



Position: Computer Operator II	Minimum Years of Experience: 2
Responsibilities: Processes scheduled routines which present few	Minimum Educational/Degree Requirements:
difficult operating problems (e.g., infrequent or easily resolved error	High school diploma, or GED; college courses
conditions). In response to computer output instructions or error	preferred
conditions, applies standard operating or corrective procedure. Re-	Training or Certification Requirements: As
fers problems which do not respond to preplanned procedure. May	may be required by local, state, or federal regula-
serve as an assistant operator, working under general supervision.	tions, or specific to specialty
	Substitution for Education: Technical training at
	commensurate level
Position: Computer Operator III	Minimum Years of Experience: 3
Responsibilities: Processes a range of scheduled routines. In addi-	Minimum Educational/Degree Requirements
tion to operating the system and resolving common error conditions,	High school diploma, or GED; college courses
diagnoses and acts on machine stoppage and error conditions not	preferred
fully covered by existing procedures and guidelines. In response to	Training or Certification Requirements: As
computer output instructions or error conditions, may deviate from	_
	may be required by local, state, or federal regula-
standard procedures if standard procedures do not provide a solu- tion. Refers problems which do not respond to corrective proce-	tions, or specific to specialty
dures.	Substitution for Education: Technical training a
	commensurate level
Position: Computer Operator IV	Minimum Years of Experience: 3
Responsibilities: Adapts to a variety of nonstandard problems	Minimum Educational/Degree Requirements
which require extensive operator intervention. In response to com-	High school diploma, or GED; college courses
puter output instructions or error conditions, chooses or devises a	preferred
course of action from among several alternatives and alters or devi-	Training or Certification Requirements: As
ates from standard procedures if standard procedures do not provide	may be required by local, state, or federal regula-
a solution (e.g., reassigning equipment in order to work around faulty	tions, or specific to specialty; A+ Certification
equipment or transfer channels); then refers problems. Typically,	Substitution for Education: Technical training a
completed work is submitted to users without supervisory review.	commensurate level
Position: Computer Operator V	Minimum Years of Experience: 4
Responsibilities: Resolves a variety of difficult operating problems.	Minimum Educational/Degree Requirements
In response to computer output instructions and error conditions or	High school diploma, or GED; college courses
to avoid loss of information or to conserve computer time, operator	preferred
deviates from standard procedures. Such actions may materially alter	Training or Certification Requirements: As
the computer unit's production plans. May spend considerable time	may be required by local, state, or federal regula-
away from the control station providing technical assistance to lower	tions, or specific to specialty; A+ Certification
level operators and assisting programmers, systems analysts, and sub-	Substitution for Education: Technical training a
ject matter specialists in resolving problems.	commensurate level
Position: Computer Programmer I	Minimum Years of Experience: 2
Responsibilities: Assists higher level staff by performing elementary	Minimum Educational/Degree Requirements
programming tasks which concern limited and simple data items and	High school diploma, or GED; college courses
steps which closely follow patterns of previous work done in the or-	preferred
ganization, e.g., drawing flow charts, writing operator instructions, or	*
coding and testing routines to accumulate counts, tallies, or summa-	Training or Certification Requirements: As
ries. May perform routine programming assignments under close	may be required by local, state, or federal regula-
supervision.	tions, or specific to specialty; Certified Computing
o-p	Professional (CCP)
	Substitution for Education: Technical training a
	commensurate level
Position: Computer Programmer II	Minimum Years of Experience: 2
tostation. Computer Programmer II	Minimum Tears of Experience; 2



Responsibilities: Initial assignments are designed to develop com-	Minimum Educational/Degree Requirements:
petence in applying established programming procedures to routine	High school diploma, or GED; college courses
problems. Performs routine programming assignments that do not	preferred
require skilled background experience but do require knowledge of	Training or Certification Requirements: As
established programming procedures and data processing require-	may be required by local, state, or federal regula-
ments. Works according to clear cut and complete specifications.	tions, or specific to specialty; Certified Computing
The data are refined and the format of the final product is very simi-	Professional (CCP)
lar to that of the input or is well defined when significantly different,	Substitution for Education: Technical training at
i.e., there are few, if any, problems with interrelating varied records	commensurate level
and outputs.	Commensurate lever
Position: Dispatcher, Motor Vehicle	Minimum Years of Experience: 2
Responsibilities: Assigns motor vehicles and drivers for use. Com-	Minimum Educational/Degree Requirements:
piles list of available vehicles. Assigns vehicles according to factors,	High school diploma, or GED; college courses
such as length and purpose of trip, freight or passenger requirements,	preferred
	1
and preferences. Issues keys, record sheets, and credential to drivers.	Training or Certification Requirements: As
Records time of departure, destination, cargo, and expected time of	may be required by local, state, or federal regula-
return. Investigates overdue vehicles. May confer with users to ex-	tions, or specific to specialty
pedite or locate missing, misrouted, delayed, or damaged merchan-	Substitution for Education: Technical training at
dise. Maintain record of mileage, fuel used, repairs made, and other	commensurate level
expenses. May establish service or delivery routes. May supervise	
loading and unloading. May issue equipment to drivers, such as	
handtrucks, dollies, and blankets.	
Position: Drafter/CAD Operator I	Minimum Years of Experience: 2
Responsibilities: Prepares drawings of simple, easily visualized	Minimum Educational/Degree Requirements:
structures, systems, parts or equipment from sketches or marked-up	High school diploma, or GED; college courses
prints. Selects appropriate templates or uses a compass and other	preferred
equipment needed to complete assignments. Drawings fit familiar	Training or Certification Requirements: As
patterns and present few technical problems.	may be required by local, state, or federal regula-
	tions, or specific to specialty
	Substitution for Education: Technical training at
	commensurate level
Position: Drafter/CAD Operator II	Minimum Years of Experience: 2
Responsibilities: Prepares various drawings of such units as con-	Minimum Educational/Degree Requirements:
struction projects or parts and assemblies, including various views,	High school diploma, or GED; college courses
sectional profiles, irregular or reverse curves, hidden lines, and small	preferred
or intricate details. Work requires use of most of the conventional	Training or Certification Requirements: As
drafting techniques and a working knowledge of the terms and pro-	may be required by local, state, or federal regula-
cedures of the occupation. Makes arithmetic computations using	tions, or specific to specialty
standard formulas. Familiar or recurring work is assigned in general	Substitution for Education: Technical training at
terms. Unfamiliar assignments include information on methods,	commensurate level
procedures, sources of information, and precedents to follow. Sim-	Commensurate lever
ple revisions to existing drawings may be assigned with a verbal ex-	
planation of the desired results.	
Position: Drafter/CAD Operator III	Minimum Years of Experience: 3
Responsibilities: Prepares complete sets of complex drawings	Minimum Educational/Degree Requirements:
which include multiple views, detail drawings, and assembly draw-	High school diploma, or GED; college courses
	preferred
ings. Drawings include complex design features that require consid-	i DicicHCO
Long blo deatter a civil to vice solution and months vice. A	1
erable drafting skill to visualize and portray. Assignments regularly	Training or Certification Requirements: As
require the use of mathematical formulas to draw land contours or to	Training or Certification Requirements: As may be required by local, state, or federal regula-
	Training or Certification Requirements: As



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information supplied by an engineer, architect, or designer to deter-	commensurate level
mine the most appropriate views, detail drawings, and supplementary	
information needed to complete assignments.	
Position: Drafter/CAD Operator IV	Minimum Years of Experience: 3
Responsibilities: Works closely with design originators, preparing	Minimum Educational/Degree Requirements:
drawings of unusual, complex, or original designs which require a	High school diploma, or GED; college courses
high degree of precision. Performs unusually difficult assignments	preferred
requiring considerable initiative, resourcefulness, and drafting exper-	Training or Certification Requirements: As
tise. Assures that anticipated problems in manufacture, assembly,	may be required by local, state, or federal regula-
installation, and operation are resolved by the drawing produced.	tions, or specific to specialty
Exercises independent judgment in selecting and interpreting data	Substitution for Education: Technical training at
based on knowledge of the design intent. Although working primar-	commensurate level
ily as a drafter, may occasionally interpret general designs prepared by	
others to complete minor details. May provide advice and guidance	
to lower level drafters or serve as coordinator and planner for large	
and complex drafting projects.	
Position: Electrician, Maintenance	Minimum Years of Experience: 2
Responsibilities: Performs a variety of electrical trade functions	Minimum Educational/Degree Requirements:
such as the installation, maintenance, or repair of equipment for the	High school diploma, or GED; college courses
generation, distribution, or utilization of electric energy. Work in-	preferred
volves most of the following: Installing or repairing any of a variety	Training or Certification Requirements: As
of electrical equipment such as generators, transformers, switch-	may be required by local, state, or federal regula-
boards, controllers, circuit breakers, motors, heating units, conduit	tions, or specific to specialty
systems, or other transmission equipment; working from blueprints,	Substitution for Education: Technical training at
drawings, layouts, or other specifications; locating and diagnosing	commensurate level
trouble in the electrical system or equipment; working standard com-	
putations relating to load requirements of wiring or electrical equip-	
ment; and using a variety of electrician's hand tools and measuring	
and testing instruments.	
Position: Electronics Technician Maintenance I	Minimum Years of Experience: 2
Responsibilities: Applies technical knowledge to perform simple or	Minimum Educational/Degree Requirements:
routine tasks following detailed instructions. Performs such tasks as	High school diploma, or GED; college courses
replacing components and wiring circuits; repairing simple electronic	preferred
equipment; and taking test readings using common instruments such	Training or Certification Requirements: As
as digital multimeters, signal generators, semiconductor testers, curve	may be required by local, state, or federal regula-
tracers, and oscilloscopes.	tions, or specific to specialty
	Substitution for Education: Technical training at
	commensurate level
Position: Electronics Technician Maintenance II	Minimum Years of Experience: 2
Responsibilities: Applies comprehensive technical knowledge to	Minimum Educational/Degree Requirements:
solve complex problems by interpreting manufacturers' manuals or	High school diploma, or GED; college courses
similar documents. Work requires familiarity with the interrelation-	preferred
ships of circuits and judgment in planning work sequence and in se-	Training or Certification Requirements: As
lecting tools and testing instruments.	may be required by local, state, or federal regula-
	tions, or specific to specialty
	none, or specific to specialty
	Substitution for Education: Technical training at
	commensurate level
Position: Electronics Technician Maintenance III	Minimum Years of Experience: 3
1 OSITION, EXECUTINES TECHNICIAN MAINTENANCE III	minimum rears of Experience, J



Responsibilities: Applies advanced technical knowledge to solve Minimum Educational/Degree Requirements: unusually complex problems that typically cannot be solved solely by High school diploma, or GED; college courses referencing manufacturers' manuals or similar documents. Work preferred typically requires a detailed understanding of the interrelationships of Training or Certification Requirements: As circuits. Exercises independent judgment in performing such tasks may be required by local, state, or federal regulaas making circuit analyses, calculating wave forms, and tracing relations, or specific to specialty tionships in signal flow. Uses complex test instruments such as high Substitution for Education: Technical training at frequency pulse generators, frequency synthesizers, distortion analyzcommensurate level ers, and complex computer control equipment. Position: Engineering Technician I Minimum Years of Experience: 2 Responsibilities: Performs simple routine tasks under close super-Minimum Educational/Degree Requirements: vision or from detailed procedures. Assembles or installs equipment High school diploma, or GED; college courses or parts requiring simple wiring, soldering, or connecting. Performs preferred simple or routine tasks or tests such as tensile or hardness tests; op-Training or Certification Requirements: As erates and adjusts simple test equipment; records test data. Gathers may be required by local, state, or federal regulaand maintains specified records of engineering data such as tests, tions, or specific to specialty drawings, etc.; performs computations by substituting numbers in Substitution for Education: Technical training at specified formulas; plots data and draws simple curves and graphs commensurate level Position: Engineering Technician II Minimum Years of Experience: 2 Responsibilities: Performs standardized or prescribed assignments Minimum Educational/Degree Requirements: High school diploma, or GED; college courses involving a sequence of related operations. Follows standard work methods on recurring assignments and specific instructions, assempreferred bles or constructs simple or standard equipment or parts; may service Training or Certification Requirements: As or repair simple instruments or equipment. Conducts a variety of may be required by local, state, or federal regulatests using established methods. Prepares test specimens, adjusts, tions, or specific to specialty Substitution for Education: Technical training at and operates equipment, and records test data, pointing out deviations resulting from equipment malfunction or observational errors. commensurate level Extracts engineering data from various prescribed but nonstandardized sources; processes the data following well-defined methods including elementary algebra and geometry; presents the data in prescribed form. Position: Engineering Technician III Minimum Years of Experience: 3 Responsibilities: Performs assignments that are not completely Minimum Educational/Degree Requirements: standardized or prescribed. Selects or adapts standard procedures or High school diploma, or GED; college courses equipment, using fully applicable precedents. Constructs compopreferred nents, subunits, or simple models or adapts standard equipment. Training or Certification Requirements: As May troubleshoot and correct malfunctions. Follows specific layout may be required by local, state, or federal regulaand scientific diagrams to construct and package simple devices and tions, or specific to specialty Substitution for Education: Technical training at subunits of equipment. Conducts various tests or experiments which may require minor modifications in test setups or procedures as well commensurate level as subjective judgments in measurement; selects, sets up, and operates standard test equipment and records test data. Extracts and compiles a variety of engineering data from field notes, manuals, lab reports, etc.; processes data, identifying errors or inconsistencies; selects methods of data presentation. Assists in design modification by compiling data related to design, specifications, and materials which are pertinent to specific items of equipment or component parts. Develops information concerning previous operational failures and modifications. Uses judgment and initiative to recognize inconsistencies or gaps in data and seeks to clarify information. **Position:** Engineering Technician IV Minimum Years of Experience: 3



Responsibilities: Performs nonroutine assignments of substantial variety and complexity, using operational precedents which are not fully applicable. Develops or reviews designs by extracting and analyzing a variety of engineering data. Applies conventional engineering practices to develop, prepare, or recommend schematics, designs, specifications, electrical drawings, and parts lists. Conducts tests or experiments requiring selection and adaptation or modification of a wide variety of critical test equipment and test procedures; sets up and operates equipment; records data, measures and records problems of significant complexity that sometimes require resolution at a higher level; and analyzes data and prepares test reports. Constructs experimental or prototype models to meet engineering requirements; conducts tests or experiments and redesigns as necessary; and records and evaluates data and reports findings.

Minimum Educational/Degree Requirements: High school diploma, or GED; college courses preferred

Training or Certification Requirements: As may be required by local, state, or federal regulations, or specific to specialty

Substitution for Education: Technical training at commensurate level

Position: Engineering Technician V

Responsibilities: Performs nonroutine and complex assignments involving responsibility for planning and conducting a complete project of relatively limited scope or a portion of a larger and more diverse project. Selects and adapts plans, techniques, designs, or layouts. Designs, develops, and constructs major units, devices, or equipment; conducts tests or experiments; analyzes results and redesigns or modifies equipment to improve performance; and reports results. From general guidelines and specifications (e.g., size or weight requirements), develops designs for equipment without critical performance requirements which are difficult to satisfy such as engine parts, research instruments, or special purpose circuitry. Analyzes technical data to determine applicability to design problems; selects from several possible design layouts; calculates design data; and prepares layouts, detailed specifications, parts lists, estimates, procedures, etc. May check and analyze drawings or equipment to determine adequacy of drawings and design. Plans or assists in planning tests to evaluate equipment performance. Determines test requirements, equipment modification, and test procedures; conducts tests using all types of instruments; analyzes and evaluates test results, and prepares reports on findings and recommendations.

Minimum Years of Experience: 4

Minimum Educational/Degree Requirements: High school diploma, or GED; college courses preferred

Training or Certification Requirements: As may be required by local, state, or federal regulations, or specific to specialty

Substitution for Education: Technical training at commensurate level

Position: Engineering Technician VI

Responsibilities: Independently plans and accomplishes complete projects or studies of broad scope and complexity. Prepares designs and specifications for various complex equipment or systems (e.g., a heating system in an office building, or new electronic components such as solid state devices for instrumentation equipment). Plans approach to solve design problems; conceives and recommends new design techniques; resolves design problems with contract personnel, and assures compatibility of design with other parts of the system. Designs and coordinates test set ups and experiments to prove or disprove the feasibility of preliminary design; uses untried and untested measurement techniques; and improves the performance of the equipment. May advise equipment users on redesign to solve unique operational deficiencies. Plans approach and conducts various experiments to develop equipment or systems characterized by (a) difficult performance requirements because of conflicting attrib-

Minimum Years of Experience: 4

Minimum Educational/Degree Requirements: High school diploma, or GED; college courses preferred

Training or Certification Requirements: As may be required by local, state, or federal regulations, or specific to specialty

Substitution for Education: Technical training at commensurate level



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utes such as versatility, size, and ease of operation; or (b) unusual	
combination of techniques or components. Arranges for fabrication	
of pilot models and determines test procedures and design of special	
test equipment.	M: · · · · · · · · · · · · · · · · · · ·
Position: Environmental Technician	Minimum Years of Experience: 2
Responsibilities: Conducts tests and field investigations to obtain	Minimum Educational/Degree Requirements:
data for use by environmental, engineering and scientific personnel in	High school diploma, or GED; college courses
determining sources and methods of controlling pollutants in air,	preferred
water, and soil, utilizing knowledge of agriculture, chemistry, meteor-	Training or Certification Requirements: As
ology, and engineering principles and applied technologies. Con-	may be required by local, state, or federal regula-
ducts chemical and physical laboratory and field tests according to	tions, or specific to specialty
prescribed standards to determine characteristics or composition of	Substitution for Education: Technical training at
solid, liquid, or gaseous materials and substances, using pH meter,	commensurate level
chemicals, autoclaves, centrifuge spectrophotometer, microscope,	
analytical instrumentation, and chemical laboratory equipment. Col-	
lects samples of gases from smokestacks, and collects other air sam-	
ples and meteorological data to assist in evaluation of atmospheric	
pollutants. Collects water samples from streams and lakes, or raw,	
semiprocessed or processed water, industrial waste water, or water	
from other sources to assess pollution problem. Collects soil, silt, or	
mud to determine chemical composition and nature of pollutants.	
Prepares sample for testing, records data, and prepares summaries	
and charts for review. Sets monitoring equipment to provide flow of	
information. Installs, operates, and performs routine maintenance	
on gas and fluid flow systems, chemical reaction systems, mechanical	
equipment, and other test instrumentation. May operate fixed or	
mobile monitoring or data collection station. May conduct bacterio-	
logical or other tests related to research in environmental or pollution	
control activity. May collect and analyze engine exhaust emissions to	
determine type and amount of pollutants.	
Position: Fire Alarm System Mechanic	Minimum Years of Experience: 2
Responsibilities: Inspects, tests, maintains, and repairs installed fire	Minimum Educational/Degree Requirements:
alarm detection and suppression systems in accordance with manu-	High school diploma, or GED; college courses
facturer's specifications and National Fire Protection Association	preferred
standards. Inspects fire alarm equipment visually and replaces defec-	Training or Certification Requirements: As
tive components. Tests initiating and signal circuits, detectors, and	may be required by local, state, or federal regula-
system transmitter and makes needed repairs. Checks pressure gaug-	tions, or specific to specialty
es on suppression system storage containers and recharges or re-	Substitution for Education: Technical training at
places containers.	commensurate level
Position: Fire Extinguisher Repairer	Minimum Years of Experience: 2
Responsibilities: Repairs and tests fire extinguishers in repair shops	Minimum Educational/Degree Requirements:
and in facilities, using hand tools and hydrostatic test equipment.	High school diploma, or GED; college courses
Dismantles extinguisher and examines tubings, horns, head gaskets,	preferred
cutter disks, and other parts for defects. Replaces worn or damaged	Training or Certification Requirements: As
parts, using hand tools. Cleans extinguishers and recharges them	may be required by local, state, or federal regula-
with materials, such as soda water and sulfuric acid, carbon tetrachlo-	tions, or specific to specialty
ride, nitrogen or patented solutions. Tests extinguishers for confor-	Substitution for Education: Technical training at
mity with legal specifications, using hydrostatic test equipment. May	commensurate level
install cabinets and brackets to hold extinguishers.	
Position: Forklift Operator	Minimum Years of Experience: 2
2 Outroit 1 Offill Operator	Manual Teats of Dapellellee, 2



Responsibilities: Operates a manually controlled gasoline, electric or liquid propane gas powered forklift to transport goods and materials of all kinds about a warehouse, or other establishment.	Minimum Educational/Degree Requirements: High school diploma, or GED; college courses preferred Training or Certification Requirements: As may be required by local, state, or federal regula-
	tions, or specific to specialty
	Substitution for Education: Technical training at
D. I. E. ID. T. C. M. I.	commensurate level
Position: Fuel Distribution System Mechanic	Minimum Years of Experience: 2
Responsibilities: Maintains and repairs fuel storage and distribution	Minimum Educational/Degree Requirements:
systems, using hand and power tools and testing instruments. In-	High school diploma, or GED; college courses
spects fuel receiving, storage, and distribution facilities to detect and	preferred
correct leakage, corrosion, faulty fittings, and malfunction of me-	Training or Certification Requirements: As
chanical units, meters, and gauges such as distribution lines, float	may be required by local, state, or federal regula-
gauges, piping valves, pumps, and roof sumps. Inspects electrical	tions, or specific to specialty
wiring, switches, and controls for safe-operating condition, ground-	Substitution for Education: Technical training at
ing, and adjustment. Lubricates and repacks valves. Lubricates	commensurate level
pumps, replaces gaskets, and seals and corrects pumping equipment	
misalignment. Cleans strainers and filters, services water separators,	
and checks meters for correct delivery and calibration. Overhauls	
system components such as pressure regulating valves and excess	
valves. Disassembles, adjusts, aligns, and calibrates gauges and me-	
ters or replaces them. Removes and installs equipment such as filters	
and piping to modify system or repair and replace system compo-	
nent. Cleans fuel tanks and distribution lines. Removes corrosion	
and repaints surfaces. Overhauls vacuum and pressure vents, float-	
ing roof seals, hangers, and roof sumps. Maintains record of inspec-	
tions and repairs.	Minimum Voors of Europian as 2
Position: Fuel Distribution System Operator Responsibilities: Receives, stores, transfers, and issues fuel through	Minimum Years of Experience: 2 Minimum Educational/Degree Requirements:
pipelines at main-line or terminal stations. Receives fuel by tanker.	High school diploma, or GED; college courses
	preferred
Ships fuel by pipeline, tank car, tank truck, and barge. Prepares and checks receiving or ship's documents. Connects lines, grounding	Training or Certification Requirements: As
wires, and loading and off loading arms or hoses to pipelines. Visu-	may be required by local, state, or federal regula-
ally inspects samples of fuel, and checks gravity and flashpoint.	tions, or specific to specialty
Gauges tanks for water, temperature, and fuel levels. Checks pumping systems for correct operating pressure or unusual noises. Per-	Substitution for Education: Technical training at
forms preventive maintenance and repairs on terminal systems. As-	commensurate level
sists in maintenance of government-owned railroad loading and	
switch area. Performs general housekeeping and grounds mainte-	
nance for terminal, pipeline and dock areas.	
Position: Gardener	Minimum Years of Experience: 2
Responsibilities: Plans and executes small scale landscaping opera-	Minimum Educational/Degree Requirements:
tions and maintains grounds and landscape of household, business	High school diploma, or GED; college courses
and other properties. Works with assistant in preparing and grading	preferred
terrain, applying fertilizers, seeding, and sodding lawns, and trans-	Training or Certification Requirements: As
I bianting shriibs and biants, and clittivates them, listing gardening im-	may be required by local state or federal regula-
planting shrubs and plants, and cultivates them, using gardening im-	may be required by local, state, or federal regula-
plements and power-operated equipment. Plants new and repairs	tions, or specific to specialty
plements and power-operated equipment. Plants new and repairs established lawns, using seed mixtures and fertilizers recommended	tions, or specific to specialty Substitution for Education: Technical training at
plements and power-operated equipment. Plants new and repairs	tions, or specific to specialty



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those selected by property owner. Mows and trims lawns, using hand or power mower. Trims shrubs and cultivates gardens. Sprays trees and shrubs and applies supplemental liquid and dry nutrients to lawn, trees and shrubs. Cleans ground, using rakes, brooms, and hose. May dig trenches and install drain tiles. May repair concrete and asphalt walks and driveways.	
Position: General Clerk I	Minimum Years of Experience: 2
Responsibilities: Follows a few clearly detailed procedures in performing simple repetitive tasks in the same sequence, such as filing precoded documents in a chronological file or operating office equipment, e.g., photocopy or mailing machine.	Minimum Educational/Degree Requirements: High school diploma, or GED; college courses preferred Training or Certification Requirements: As may be required by local, state, or federal regulations, or specific to specialty Substitution for Education: Technical training at commensurate level
Position: General Clerk II	Minimum Years of Experience: 2
Responsibilities: Follows a number of specific procedures in completing several repetitive clerical steps performed in a prescribed or slightly varied sequence, such as coding and filing documents in an extensive alphabetical file, simple posting to individual accounts, opening mail, running mail through metering machines, and calculating and posting charges. Little or no subject-matter knowledge is required, but the clerk needs to choose the proper procedure for each task. Position: General Clerk III Responsibilities: Work requires a familiarity with the terminology of the project. Selects appropriate methods from a wide variety of procedures or makes simple adaptations and interpretations of a limited number of substantive guides and manuals.	Minimum Educational/Degree Requirements: High school diploma, or GED; college courses preferred Training or Certification Requirements: As may be required by local, state, or federal regulations, or specific to specialty Substitution for Education: Technical training at commensurate level Minimum Years of Experience: 3 Minimum Educational/Degree Requirements: High school diploma, or GED; college courses preferred Training or Certification Requirements: As may be required by local, state, or federal regulations, or specific to specialty Substitution for Education: Technical training at commensurate level
Position: General Maintenance Worker	Minimum Years of Experience: 2
Responsibilities: Performs general maintenance and repair of equipment and buildings requiring practical skill and knowledge (but not proficiency) in such trades as painting, carpentry, plumbing, masonry, and electrical work. Work involves a variety of the following duties: Replacing electrical receptacles, wires, switches, fixtures, and motors; using plaster or compound to patch minor holes and cracks in walls and ceilings; repairing or replacing sinks, water coolers, and toilets; painting structures and equipment; repairing or replacing concrete floors, steps, and sidewalks; replacing damaged panelling and floor tiles; hanging doors and installing door locks; replacing broken windows; and performing general maintenance on equipment and machinery.	Minimum Educational/Degree Requirements: High school diploma, or GED; college courses preferred
	Training or Certification Requirements: As may be required by local, state, or federal regulations, or specific to specialty
	Substitution for Education: Technical training at commensurate level
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Responsibilities: Installs, services and repairs environmentalcontrol systems in residences, department stores, office buildings and other commercial establishments, utilizing knowledge of refrigeration theory, pipefitting and structural layout. Mounts compressor and condenser units on platform or floor, using hand tools, following blueprints or engineering specifications. Fabricates, assembles, and installs ductwork and chassis parts, using portable metalworking tools and welding equipment. Installs evaporator unit in chassis or in air-duct system, using hand tools. Cuts and bends tubing to correct length and shape, using cutting and bending equipment and tools. Cuts and threads pipe, using machine-threading or hand-threading equipment. Joins tubing or pipes to various refrigerating units by means of sleeves, couplings or unions, and solders joints, using torch, forming complete circuit for refrigerant. Installs expansion and discharge valves in circuit. Connects motors, compressors, temperature controls, humidity controls, and circulating ventilation fans to control panels and connects control panels to power source. Installs air and water filters in completed installation. Injects small amount of refrigerant into compressor to test systems and adds freon gas to build up prescribed operating pressure. Observes pressure and vacuum gauges and adjusts controls to insure proper operation. Tests joints and connections for gas leaks, using gauges or soap-and-water solution. Wraps pipes in insulation batting and secures them in place with cement or wire bands. Replaces defective breaker controls, thermostats, switches, fuses and electrical wiring to repair installed units, using electrician's hand tools and test equipment. May install, repair and service air conditioners, ranging from fifteen to twenty tons cooling capacity, in warehouses and small factory buildings.

Minimum Educational/Degree Requirements: High school diploma, or GED; college courses preferred

Training or Certification Requirements: As may be required by local, state, or federal regulations, or specific to specialty; CFC Universal

Substitution for Education: Technical training at commensurate level

Position: Heavy Equipment Mechanic

Responsibilities: Analyzes malfunctions and repairs, rebuilds and maintains power equipment, such as cranes, power shovels, scrapers, paving machines, motor graders, trench-digging machines, conveyors, bulldozers, dredges, pumps, compressors and pneumatic tools. Operates and inspects machines or equipment to diagnose defects. Dismantles and reassembles equipment, using hoists and hand tools. Examines parts for damage or excessive wear, using micrometers and gauges. Replaces defective engines and subassemblies, such as transmissions. Tests overhauled equipment to insure operating efficiency. Welds broken parts and structural members. May direct workers engaged in cleaning parts and assisting with assembly and disassembly of equipment. May repair, adjust, and maintain mining machinery, such as stripping and loading shovels, drilling and cutting machines, and continuous mining machines.

Minimum Years of Experience: 2

Minimum Educational/Degree Requirements: High school diploma, or GED; college courses preferred

Training or Certification Requirements: As may be required by local, state, or federal regulations, or specific to specialty

Substitution for Education: Technical training at commensurate level



Position: Heavy Equipment Operator	Minimum Years of Experience: 2
Responsibilities: Operates heavy equipment such as cranes, clam-	Minimum Educational/Degree Requirements:
shells, power shovels, motor graders, heavy loaders, carryalls, bull-	High school diploma, or GED; college courses
dozers, rollers, scrapers, and large industrial tractors with pan or	preferred
scrapper attachments. Equipment is used to excavate, load or move	Training or Certification Requirements: As
dirt, gravel or other materials. Operator may read and interpret grade	may be required by local, state, or federal regula-
and slope stakes and simple plans. May grease, adjust, and make	tions, or specific to specialty
emergency repairs to equipment.	Substitution for Education: Technical training at
	commensurate level
Position: Instrument Mechanic	Minimum Years of Experience: 2
Responsibilities: Installs, repairs, maintains, and adjusts indicating,	Minimum Educational/Degree Requirements:
recording, telemetering, and controlling instruments used to measure	High school diploma, or GED; college courses
and control variables, such as pressure, flow, temperature, motion,	preferred
force, and chemical composition, using hand tools and precision in-	Training or Certification Requirements: As
struments. Disassembles malfunctioning instruments, and examines	may be required by local, state, or federal regula-
and tests mechanism and circuitry for defects. Troubleshoots	tions, or specific to specialty
equipment in or out of control system and replaces or repairs defec-	Substitution for Education: Technical training at
tive parts. Reassembles instrument and tests assembly for confor-	commensurate level
mance with specifications, using instruments, such as potentiometer,	Commensurate level
resistance bridge, manometer, and pressure gauge. Inspects instru-	
ments periodically and makes minor calibration adjustments to insure	
functioning within specified standards. May adjust and repair final	
control mechanisms, such as automatically controlled valves or posi-	
tioners. May calibrate instruments according to established standards	
Position: Janitor	
	Minimum Vocas of Expansion on 2
	Minimum Years of Experience: 2
Responsibilities: Cleans and keeps in an orderly condition factory	Minimum Educational/Degree Requirements:
Responsibilities: Cleans and keeps in an orderly condition factory working areas and washrooms, or premises of an office, apartment	Minimum Educational/Degree Requirements: High school diploma, or GED; college courses
Responsibilities: Cleans and keeps in an orderly condition factory working areas and washrooms, or premises of an office, apartment house, or commercial or other establishment. Duties involve:	Minimum Educational/Degree Requirements: High school diploma, or GED; college courses preferred
Responsibilities: Cleans and keeps in an orderly condition factory working areas and washrooms, or premises of an office, apartment house, or commercial or other establishment. Duties involve: Sweeping, mopping or scrubbing, and polishing floors; removing	Minimum Educational/Degree Requirements: High school diploma, or GED; college courses preferred Training or Certification Requirements: As
Responsibilities: Cleans and keeps in an orderly condition factory working areas and washrooms, or premises of an office, apartment house, or commercial or other establishment. Duties involve: Sweeping, mopping or scrubbing, and polishing floors; removing chips, trash, and other refuse; dusting equipment, furniture, or fix-	Minimum Educational/Degree Requirements: High school diploma, or GED; college courses preferred Training or Certification Requirements: As may be required by local, state, or federal regula-
Responsibilities: Cleans and keeps in an orderly condition factory working areas and washrooms, or premises of an office, apartment house, or commercial or other establishment. Duties involve: Sweeping, mopping or scrubbing, and polishing floors; removing chips, trash, and other refuse; dusting equipment, furniture, or fixtures; polishing metal fixtures or trimmings; providing supplies and	Minimum Educational/Degree Requirements: High school diploma, or GED; college courses preferred Training or Certification Requirements: As may be required by local, state, or federal regulations, or specific to specialty
Responsibilities: Cleans and keeps in an orderly condition factory working areas and washrooms, or premises of an office, apartment house, or commercial or other establishment. Duties involve: Sweeping, mopping or scrubbing, and polishing floors; removing chips, trash, and other refuse; dusting equipment, furniture, or fixtures; polishing metal fixtures or trimmings; providing supplies and minor maintenance services; and cleaning lavatories, showers, and	Minimum Educational/Degree Requirements: High school diploma, or GED; college courses preferred Training or Certification Requirements: As may be required by local, state, or federal regulations, or specific to specialty Substitution for Education: Technical training at
Responsibilities: Cleans and keeps in an orderly condition factory working areas and washrooms, or premises of an office, apartment house, or commercial or other establishment. Duties involve: Sweeping, mopping or scrubbing, and polishing floors; removing chips, trash, and other refuse; dusting equipment, furniture, or fixtures; polishing metal fixtures or trimmings; providing supplies and minor maintenance services; and cleaning lavatories, showers, and restrooms.	Minimum Educational/Degree Requirements: High school diploma, or GED; college courses preferred Training or Certification Requirements: As may be required by local, state, or federal regulations, or specific to specialty Substitution for Education: Technical training at commensurate level
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Position: Laborer, Grounds Maintenance	Minimum Years of Experience: 1 or less
Responsibilities: Maintains grounds of industrial, commercial or	Minimum Educational/Degree Requirements:
public property such as buildings, camp and picnic grounds, parks,	High school diploma, or GED; college courses
playgrounds, greenhouses, and athletic fields, and repairs structures	preferred
and equipment, performing one or more of the following tasks: Cuts	Training or Certification Requirements: As
grass, using walking-type or riding mowers (less than 2000 lbs.).	may be required by local, state, or federal regula-
Trims hedges and edges around walks, flower beds, and wells, using	tions, or specific to specialty
hedge trimmers, clippers and edging tools. Prunes shrubs and trees	Substitution for Education: Technical training at
to shape and improve growth, using shears and other hand tools.	commensurate level
Sprays lawn, shrubs, and trees with fertilizer or insecticide. Plants	Commensurate rever
grass, flowers, trees, and shrubs. Waters lawn and shrubs during dry	
periods, using hose or activating sprinkler system. Picks up and	
burns or carts away leaves, paper or other litter. Removes snow	
from walks, driveways, roads, or parking lots, using shovel and snow	
blower. Spreads salt on walkways and other areas. Repairs and	
paints fences, gates, benches, tables, guardrails, and outbuildings.	
Assists in repair of roads, walks, buildings, and mechanical equip-	
ment. May clean comfort stations, office and workshop areas, and	
parking lots by sweeping, washing, mopping and polishing	
Position: Locksmith	Minimum Years of Experience: 2
Responsibilities: Installs, repairs, modifies, and opens a variety of	Minimum Educational/Degree Requirements:
locking mechanisms found on doors, desks, compartments, mobile	High school diploma, or GED; college courses
equipment, safes, and vaults. Examines locking mechanism and in-	preferred
stalls new unit or disassembles unit and replaces worn tumblers,	Training or Certification Requirements: As
springs, and other parts or repairs them by filing, drilling, chiseling	may be required by local, state, or federal regula-
and grinding. Opens door locks by moving lockpick in cylinder or	tions, or specific to specialty
opens safe locks by listening to lock sounds or by drilling. Makes	•
new or duplicate keys, using key cutting machine. Changes combina-	Substitution for Education: Technical training at commensurate level
tion by inserting new or repaired tumblers into lock. Establishes key-	Commensurate level
ing systems for buildings.	
Position: Machinery Maintenance Mechanic	Minimum Years of Experience: 2
Responsibilities: Repairs machinery or mechanical equipment.	Minimum Educational/Degree Requirements:
Work involves: Examining machines and mechanical equipment to	High school diploma, or GED; college courses
diagnose source of trouble; dismantling or partly dismantling ma-	preferred
chines and performing repairs that mainly involve the use of hand	Training or Certification Requirements: As
tools in scraping and fitting parts; replacing broken or defective parts	may be required by local, state, or federal regula-
with items obtained from stock; ordering the production of a re-	tions, or specific to specialty
placement part by a machine shop or sending the machine to a ma-	Substitution for Education: Technical training at
chine shop for major repairs; preparing written specifications for ma-	commensurate level
jor repairs or for the production of parts ordered from machine	Commensurate level
shops; reassembling machines and making all necessary adjustments	
for operation.	
Position: Machinist, Maintenance	Minimum Years of Experience: 2
Responsibilities: Produces replacement parts and new parts in mak-	Minimum Educational/Degree Requirements:
ing repairs of metal parts of mechanical equipment. Work involves:	High school diploma, or GED; college courses
Interpreting written instructions and specifications; planning and	preferred
THICHDICHIE WHITEH HISTIACHOHS AND SUCCINCAUOUS, DIAHIHIE AND	preferred
laying out of work; using a variety of machinist's hand tools and pre-	1



cision measuring instruments; setting up and operating standard ma-Training or Certification Requirements: As chine tools; shaping of metal parts to close tolerances; making stanmay be required by local, state, or federal reguladard shop computations relating to dimensions of work, tooling, tions, or specific to specialty feeds, and speeds of machining; knowledge of the working properties of the common metals; selecting standard materials, parts, and Substitution for Education: Technical training at equipment required for this work; and fitting and assembling parts commensurate level into mechanical equipment. **Position:** Maintenance Trades Helper Minimum Years of Experience: 1 Minimum Educational/Degree Requirements: Responsibilities: Assists one or more workers in the skilled maintenance trades by performing specific or general duties of lesser skill, High school diploma, or GED; college courses such as keeping a worker supplied with materials and tools; cleaning preferred working area, machine, and equipment; assisting journeyman by Training or Certification Requirements: As holding materials or tools; and performing other unskilled tasks as may be required by local, state, or federal reguladirected by journeyman. tions, or specific to specialty Substitution for Education: Technical training at commensurate level Position: Material Coordinator Minimum Years of Experience: 2 Responsibilities: Coordinates and expedites flow of material, parts, Minimum Educational/Degree Requirements: High school diploma, or GED; college courses and assemblies within or between departments in accordance with production and shipping schedules or department supervisors' prioripreferred ties. Reviews production schedules and confers with department Training or Certification Requirements: As supervisors to determine material required or overdue and to locate may be required by local, state, or federal regulations, or specific to specialty material. Requisitions material and establishes delivery sequences Substitution for Education: Technical training at according to job order priorities and anticipated availability of material. Arranges transfer of materials to meet schedules. Arranges with commensurate level supervisors for repair and assembly of material and its transportation to various job sites. Examines material delivered to verify if type specified. **Position:** Material Expediter Minimum Years of Experience: 2 Responsibilities: Locates and moves materials and parts between Minimum Educational/Degree Requirements: High school diploma, or GED; college courses work areas expedite goods according to predetermined schedules and priorities, and keeps related records: Reviews schedules inventory preferred Training or Certification Requirements: As reports, and work orders to determine types, quantities, and availability of required material and priorities. Confers with supervisors to may be required by local, state, or federal reguladetermine materials overdue and to inform them of location, availtions, or specific to specialty ability, and condition of materials. Locates and moves materials to Substitution for Education: Technical training at specified sites using cart or hand truck. Records quantity and type of commensurate level materials distributed and on hand. May compare work ticket specifications with material to verify appropriateness. May prepare worker production records and timecards. May update and maintain inventory records.



Position: Material Handling Laborer	Minimum Years of Experience: 1 or less				
Responsibilities: Performs physical tasks to transport or store materials. Duties involve the following: Manually loading or unloading freight cars, trucks, or other transporting devices; unpacking, shelv-	Minimum Educational/Degree Requirements: High school diploma, or GED; college courses preferred Training or Certification Requirements: As				
ing, or placing items in proper storage locations; or transporting goods by hand truck, cart, or push cart.	Training or Certification Requirements: As may be required by local, state, or federal regulations, or specific to specialty				
	Substitution for Education: Technical training at commensurate level				
Position: Mobile Equipment Servicer	Minimum Years of Experience: 2				
Responsibilities: Operating from a mobile fuel station and/or tanker performing the following duties: Supplies all types of vehicles with gasoline or diesel fuel, and records mileage and tag numbers. Checks	Minimum Educational/Degree Requirements: High school diploma, or GED; college courses preferred				
fluid levels of transmissions, battery, cooling system, and engine oil. Checks tires for wear and for pressure. Replaces wiper blades, fuses, sealed beam lights, and light bulbs. Inspects equipment and per-	Training or Certification Requirements: As may be required by local, state, or federal regulations, or specific to specialty				
forms preventive maintenance services. Changes oil and filters, and lubricates and greases vehicles. Washes and cleans interiors and exteriors of vehicles; maintains inventories of parts and supplies; and cleans and maintains work areas	Substitution for Education: Technical training at commensurate level				
Position: Order Clerk I	Minimum Years of Experience: 2				
Responsibilities: Handles orders involving items which have readily identified uses and applications. May refer to a catalog, manufacturer's manual or similar document to insure that proper item is sup-	Minimum Educational/Degree Requirements: High school diploma, or GED; college courses preferred				
plied or to verify price of ordered item.	Training or Certification Requirements: As may be required by local, state, or federal regulations, or specific to specialty				
	Substitution for Education: Technical training at commensurate level				
Position: Order Clerk II	Minimum Years of Experience: 2				
Responsibilities: Handles orders that involve making judgments such as choosing which specific product or material from the establishment's product lines will satisfy the customer's needs, or deter-	Minimum Educational/Degree Requirements: High school diploma, or GED; college courses preferred				
mining the price to be quoted when pricing involves more than merely referring to a price list or making some simple mathematical calculations.	Training or Certification Requirements: As may be required by local, state, or federal regulations, or specific to specialty				
	Substitution for Education: Technical training at commensurate level				
Position: Painter, Maintenance	Minimum Years of Experience: 2				
Responsibilities: Paints and redecorates walls, woodwork and fixtures. Work involves the following: Knowledge of surface peculiarities and types of paint required for different applications; preparing	Minimum Educational/Degree Requirements: High school diploma, or GED; college courses preferred				
surface for painting by removing old finish or by placing putty or filler in nail holes and interstices; and applying paint with spray gun or brush. May mix colors, oils, white lead and other paint ingredients	Training or Certification Requirements: As may be required by local, state, or federal regulations, or specific to specialty				
to obtain proper color or consistency.	Substitution for Education: Technical training at commensurate level				



Position: Dougonal Computer Synapht Tophnician	Minimum Voors of Experiences 2			
Position: Personal Computer Support Technician Position: Personal Computer Support Technician	Minimum Years of Experience: 2			
Responsibilities: Provides support to distributed PC/networking	Minimum Educational/Degree Requirements:			
environment including installation, testing, repair, and troubleshoot-	High school diploma, or GED; college courses			
ing for stand-alone PCs, PCs linked to networks, printers, and other	preferred			
computer peripherals. Support responsibilities include software in-	Training or Certification Requirements: As			
stallation, and configurations. This technician performs technical,	may be required by local, state, or federal regula-			
operational, and training support to users of personal computers ei-	tions, or specific to specialty; A+ certification			
ther by telephone, or on-site for PC desktop hardware and software	Substitution for Education: Technical training at			
packages. Job duties require the technician to install and test per-	commensurate level			
sonal computers, printers, and other peripherals, configure operating				
system, load shrink-wrap programs and other application software				
programs. In this position, the incumbent troubleshoots computer				
problems, performs hardware and software diagnostics, coordinates				
needed repairs, resolves computer system problems, including coor-				
dination between users and components of a local area network, and				
participates in the evaluation of system configuration and software.	Minimum Variance CE marine 2			
Position: Personnel Assistant (Employment) I	Minimum Years of Experience: 2			
Responsibilities: Performs routine tasks which require a knowledge	Minimum Educational/Degree Requirements:			
of personnel procedures and rules, such as: providing simple em-	High school diploma, or GED; college courses			
ployment information and appropriate lists and forms to applicants	preferred Project Proj			
or employees on types of jobs being filled, procedures to follow, and	Training or Certification Requirements: As			
where to obtain additional information; ensuring that the proper	may be required by local, state, or federal regula-			
forms are completed for name changes, locator information, applica-	tions, or specific to specialty			
tions, etc. and reviewing completed forms for signatures and proper	Substitution for Education: Technical training at			
entries; or maintaining personnel records, contacting appropriate	commensurate level			
sources to secure any missing items, and posting items such as dates				
of promotions, transfer, and hire, or rates of pay or personal data. If				
this information is computerized, outside inquiries for simple factual				
information, such as verification of dates of employment in response				
to telephone credit checks of employees. Some receptionist or other				
clerical duties may be performed.	Minimum Voors of Europian as 2			
Position: Personnel Assistant (Employment) II	Minimum Years of Experience: 2			
Responsibilities: Examines and/or processes personnel action doc-	Minimum Educational/Degree Requirements:			
uments using experience in applying personnel procedures and poli-	High school diploma, or GED; college courses preferred			
cies. Ensures that information is complete and consistent and de-	1			
termines whether further discussion with applicants or employees is needed or whether personnel information must be checked against	Training or Certification Requirements: As			
additional files or listings. Responds to questions from applicants,	may be required by local, state, or federal regula-			
employees, or managers; with skill to secure cooperation in correct-	tions, or specific to specialty			
ing improperly completed personnel documents or to explain regula-	Substitution for Education: Technical training at commensurate level			
tions and procedures. May provide information to managers on	Commensurate level			
availability of applicants and status of hiring actions; may verify em-				
ployment dates and places supplied on applications; may maintain				
personnel records; and administer typing and stenography test.				
	Minimum Years of Experience: 3			
Position: Personnel Assistant (Employment) III Responsibilities: Serves as a clerical expert in independently proc-	Minimum Educational/Degree Requirements:			
essing the most complicated types of personnel actions, e.g., tempo-	High school diploma, or GED; college courses			
rary employment, rehires, and dismissals and in providing informa-	preferred			
tion when it is necessary to consolidate data from a number sources,	Training or Certification Requirements: As			
often with short deadlines. Screens applications for obvious rejec-	may be required by local, state, or federal regula-			
tions. Resolves conflicts in computer listings or other sources of	tions, or specific to specialty			
done. Resolves confined in computer usungs of other sources of	Lions, or specific to specialty Page 30			



employee information. Locates lost documents or reconstructs information using a number of sources. May check references of applicants when information in addition to dates and places of past work is needed, and judgment is required to ask appropriate routine follow-up questions. Performs routine personnel assignments beyond the clerical level, such as: orienting new employees to programs, facilities, rules on time and attendance, and leave policies; computing basic statistical information for reports on manpower profiles, EEO progress and accomplishments, hiring activities, attendance and leave profiles, turnover, etc.; and screening applicants for well-defined positions, rejecting those who do not qualify for available openings for clear cut reasons, referring others to appropriate employment interviewer

Substitution for Education: Technical training at commensurate level

Position: Pest Controller

Responsibilities: Sprays chemical solutions or toxic gases and sets mechanical traps to kill pests that infest buildings and surrounding areas. Fumigates rooms and buildings, using toxic gases. Sprays chemical solutions or dusts powders in rooms and work areas. Places poisonous paste or bait and mechanical traps where pests are present. May clean areas that harbor pests, using rakes, brooms, shovels, and mops preparatory to fumigating.

Minimum Years of Experience: 2

Minimum Educational/Degree Requirements: High school diploma, or GED; college courses preferred

Training or Certification Requirements: As may be required by local, state, or federal regulations, or specific to specialty; state license

Substitution for Education: Technical training at commensurate level

Position: Pipefitter, Maintenance

Responsibilities: Installs or repairs water, steam, gas or other types of pipe and pipefittings. Work involves: Laying out work and measuring to locate position of pipe from drawings or other written specifications; cutting various sizes of pipe to correct lengths with chisel and hammer, oxyacetylene torch or pipe-cutting machines; threading pipe with stocks and dies, bending pipe by hand-driven or power-driven machines; assembling pipe with couplings and fastening pipe to hangers; making standard shop computations relating to pressures, flow and size of pipe required; and making standard tests to determine whether finished pipes meet specifications.

Minimum Years of Experience: 2

Minimum Educational/Degree Requirements: High school diploma, or GED; college courses preferred

Training or Certification Requirements: As may be required by local, state, or federal regulations, or specific to specialty

Substitution for Education: Technical training at commensurate level

Position: Plumber, Maintenance

Responsibilities: Assembles, installs and repairs pipes, fittings and fixtures of heating, water, and drainage systems, according to specifications and plumbing codes. Studies building plans and working drawings to determine work aids required and sequence of installations. Inspects structure to ascertain obstructions to be avoided to prevent weakening of structure resulting from installation of pipe. Locates and marks position of pipe and pipe connections and passage holes for pipes in walls and floors, using ruler, spirit level, and plumb bob. Cuts openings in walls and floors to accommodate pipe and pipe fittings, using hand tools and power tools. Cuts and threads pipe, using pipe cutters, cutting torch, and pipe-threading machine. Bends pipe to required angle by use of pipe-bending machine or by placing pipe over block and bending it by hand. Assembles and installs valves, pipe fittings, and pipes composed of metals, such as iron, steel, brass and lead, and nonmetals, such as glass, vitrified clay, and plastic, using hand tools and power tools. Joins pipe by use of screws, bolts, fittings, solder, plastic solvent, and calks joints. Fills

Minimum Years of Experience: 2

Minimum Educational/Degree Requirements: High school diploma, or GED; college courses preferred

Training or Certification Requirements: As may be required by local, state, or federal regulations, or specific to specialty

Substitution for Education: Technical training at commensurate level



pipe system with water or air and reads pressure gauges to determine	
whether system is leaking. Installs and repairs plumbing fixtures,	
such as sinks, commodes, bathtubs, water heaters, hot water tanks,	
garbage disposal units, dishwashers, and water softeners. Repairs and	
maintains plumbing by replacing washers in leaky faucets, mending	
burst pipes, and opening clogged drains. May weld holding fixtures	
to steel structural members.	
Position: Pneudraulic Systems Mechanic	Minimum Years of Experience: 2
Responsibilities: Maintains, modifies, and repairs hydraulic and	Minimum Educational/Degree Requirements:
pneumatic systems and components that actuate mechanisms or	High school diploma, or GED; college courses
	preferred
produce, control, and regulate the flow of fluids (liquids and gases).	
Tests for and isolates malfunctions in hydraulic and pneumatic sys-	Training or Certification Requirements: As
tems or components, utilizing technical manuals and schematics.	may be required by local, state, or federal regula-
Modifies, repairs or disassembles and overhauls systems or compo-	tions, or specific to specialty
nents.	Substitution for Education: Technical training at
	commensurate level
Position: Production Control Clerk	Minimum Years of Experience: 2
Responsibilities: Compiles and records production data for indus-	Minimum Educational/Degree Requirements:
trial establishments to compare records and reports on volume of	High school diploma, or GED; college courses
production, consumption of material, quality control, and other as-	preferred
pects of production, performing any combination of the following	Training or Certification Requirements: As
duties: Compiles and records production data from such documents	may be required by local, state, or federal regula-
as customer orders, work tickets, product specifications, and individ-	tions, or specific to specialty
ual worker production sheets, following prescribed recording proce-	Substitution for Education: Technical training at
dures and using typewriter and other devices. Calculates such factors	commensurate level
as types and quantities of items produced, materials used, amount of	
scrap, frequency of defects, and worker and department production	
rates, using adding machine or calculator. Writes production reports	
based on data compiled, tabulated, and computed, following pre-	
scribed formats. Maintains files of documents used and prepared.	
Compiles from customer orders and other specifications detailed	
production sheets or work tickets for use by production workers as	
guides in assembly or manufacture of products. Prepares work sche-	
dules based on established guidelines and priorities. Compiles mate-	
rial inventory records and prepares requisitions for procurement of	
materials and supplies. Charts production, using chart, graph, or	
pegboard, based on statistics compiled for reference by production	
and management personnel. Sorts and distributes work tickets or	
material to workers. May compute wages from employee time cards	
and post wage data on records for preparation of payroll.	
Position: Pruner	Minimum Voors of Experience 2
	Minimum Years of Experience: 2
Responsibilities: The Pruner identifies and inspects trees for dam-	Minimum Educational/Degree Requirements:
age and/or diseases. Uses loppers to remove limbs from designated	High school diploma, or GED; college courses
trees, applies spacing guidelines for selection of best trees, and cuts	preferred Projection P
or severs all live or dead limbs of selected trees to a specified height.	Training or Certification Requirements: As
	may be required by local, state, or federal regula-
	tions, or specific to specialty
	Substitution for Education: Technical training at
	commensurate level



Position: Recycling Laborer	Minimum Years of Experience: 1 or less
Responsibilities: Sorts through collected trash and debris for recy-	Minimum Educational/Degree Requirements:
clable materials and separates items into established categories such	High school diploma, or GED; college courses
as aluminum, ferrous metals, glass, high-grade white paper, and cor-	preferred
rugated paper. Discards contaminants and other items that cannot	
	Training or Certification Requirements: As
be recycled.	may be required by local, state, or federal regula-
	tions, or specific to specialty
	Substitution for Education: Technical training at
	commensurate level
Position: Recycling Specialist	Minimum Years of Experience: 2
Responsibilities: Conducts variety of tests such as magnetic checks	Minimum Educational/Degree Requirements:
and tests to determine solubility of glues and similar contaminants to	High school diploma, or GED; college courses
determine type and quality of recyclable materials, stores recyclable	preferred
materials for maximum convenience of handling preparatory to	Tarinia a an Contification Bossisson anto A
shipment and for protection from deterioration, operates forklift to	Training or Certification Requirements: As
transport and stock loaded pallets in warehouse, semi-tractor trailers	may be required by local, state, or federal regula-
and railroad boxcars; prepares receipts and reports concerning mate-	tions, or specific to specialty
rials collected and chipped, may assist in operating large capacity in-	Substitution for Education: Technical training at
dustrial machinery such as paper shredder, magnetic can separator,	commensurate level
glass crusher, baler and compactor, may assist in performing preven-	
tive maintenance, minor repairs.	
Position: Refuse Collector	Minimum Years of Experience: 1
Responsibilities: Picks up garbage, trash, or refuse from homes and	Minimum Educational/Degree Requirements:
businesses and other locations, and deposits it in a truck.	High school diploma, or GED; college courses
businesses and other rocations, and deposits it in a truets.	preferred
	Training or Certification Requirements: As
	may be required by local, state, or federal regula-
	tions, or specific to specialty
	Substitution for Education: Technical training at
Davidia and Caramata and I	commensurate level
Position: Secretary I	Minimum Years of Experience: 2
Responsibilities: Provides principal secretarial support in an office,	Minimum Educational/Degree Requirements:
usually to one individual, and, in some cases, also to the subordinate	High school diploma, or GED; college courses
staff of that individual. Maintains a close and highly responsive rela-	preferred
tionship to the day-to-day activities of the supervisor and staff.	Training or Certification Requirements: As
Works fairly independently, receiving a minimum of detailed supervi-	may be required by local, state, or federal regula-
sion and guidance. Performs varied clerical and secretarial duties	tions, or specific to specialty
requiring knowledge of office routine and an understanding of the	Substitution for Education: Technical training at
organization, programs, and procedures related to the work of the	commensurate level
office. Responds to routine telephone requests which have standard	
answers; refers calls and visitors to appropriate staff. Controls mail	
and assures timely staff response; may send form letters. As in-	
structed, maintains supervisor's calendar, makes appointments, and	
arranges for meeting rooms. Reviews materials prepared for supervi-	
sor's approval for typographical accuracy and proper format. Main-	
tains recurring internal reports, such as time and leave records, office	
equipment listings, correspondence controls, and training plans. Re-	
quisitions supplies, printing, maintenance, or other services. Types,	
	I and the second
takes and transcribes dictation, and establishes and maintains office files.	



Position: Secretary II

Responsibilities: Provides principal secretarial support in an office, usually to one individual, and, in some cases, also to the subordinate staff of that individual. Maintains a close and highly responsive relationship to the day-to-day activities of the supervisor and staff. Works fairly independently, receiving a minimum of detailed supervision and guidance. Performs varied clerical and secretarial duties requiring knowledge of office routine and an understanding of the organization, programs, and procedures related to the work of the office. Screens telephone calls, visitors, and incoming correspondence; personally responds to requests for information concerning office procedures; determines which requests should be handled by the supervisor, appropriate staff member or other offices. May prepare and sign routine, nontechnical correspondence in own or supervisor's name. Schedules tentative appointments without prior clearance. Makes arrangements for conferences and meetings and assembles established background materials, as directed. May attend meetings and record and report on the proceedings. Reviews outgoing materials and correspondence for internal consistency and conformance with supervisor's procedures; assures that proper clearances have been obtained, when needed. Collects information from the files or staff for routine inquiries on office program(s) or periodic reports. Refers nonroutine requests to supervisor or staff. Explains to subordinate staff supervisor's requirements concerning office procedures. Coordinates personnel and administrative forms for the office and forwards for processing.

Minimum Years of Experience: 2

Minimum Educational/Degree Requirements: High school diploma, or GED; college courses preferred

Training or Certification Requirements: As may be required by local, state, or federal regulations, or specific to specialty

Substitution for Education: Technical training at commensurate level

Position: Secretary III

Responsibilities: Provides principal secretarial support in an office, usually to one individual, and, in some cases, also to the subordinate staff of that individual. Maintains a close and highly responsive relationship to the day-to-day activities of the supervisor and staff. Works fairly independently, receiving a minimum of detailed supervision and guidance. Performs varied clerical and secretarial duties requiring knowledge of office routine and an understanding of the organization, programs, and procedures related to the work of the office. Based on a knowledge of the supervisor's views, composes correspondence on own initiative about administrative matters and general office policies for supervisor's approval. Anticipates and prepares materials needed by the supervisor for conferences, correspondence, appointments, meetings, telephone calls, etc., and informs supervisor on matters to be considered. Prepares special or one-time reports, summaries, or replies to inquiries, selecting relevant information from a variety of sources such as reports, documents, correspondence, other offices, etc., under general directions. Advises secretaries in subordinate offices on new procedures; requests information needed from the subordinate office(s) for periodic or special conferences, reports, inquiries, etc. Shifts clerical staff to accommodate workload needs.

Minimum Years of Experience: 3

Minimum Educational/Degree Requirements: High school diploma, or GED; college courses preferred

Training or Certification Requirements: As may be required by local, state, or federal regulations, or specific to specialty; Microsoft Office User Specialist (MOUS)

Substitution for Education: Technical training at commensurate level



Position: Service Order Dispatcher	Minimum Years of Experience: 2			
Responsibilities: Receives, records, and distributes work orders to	Minimum Educational/Degree Requirements:			
service crews upon customers' requests for service. Records infor-	High school diploma, or GED; college courses			
mation, such as name, address, article to be repaired, or service to be	preferred			
rendered. Prepares work order and distributes to service crew.	Training or Certification Requirements: As			
Schedules service call and dispatches service crew. Calls or writes	may be required by local, state, or federal regula-			
customer to insure satisfactory performance of service. Keeps re-	tions, or specific to specialty			
cord of service calls and work orders. May dispatch orders and relay	Substitution for Education: Technical training			
messages and special instructions to mobile crews and other depart-	commensurate level			
ments, using radio telephone equipment.	Commencerate level			
Position: Sewage Plant Operator	Minimum Years of Experience: 2			
Responsibilities: Operates sewage treatment, sludge processing, and	Minimum Educational/Degree Requirements:			
disposal equipment in wastewater (sewage) treatment plant to control	High school diploma, or GED; college courses			
flow and processing of sewage. Monitors control panels and adjusts	preferred			
valves and gates manually or by remote control to regulate flow of	piciened			
sewage. Observes variations in operating conditions and interprets				
meter and gauge readings, and tests results to determine load re-	Training or Certification Requirements: As			
quirements. Starts and stops pumps, engines and generators to con-	may be required by local, state, or federal regula-			
trol flow of raw sewage through filtering, settling, aeration, and	tions, or specific to specialty			
sludge digestion processes. Maintains log of operations and records				
meter and gas readings. Gives directions to wastewater treatment-				
plant attendants and sewage-disposal workers in performing routine	Substitution for Education: Technical training at			
operations and maintenance. May collect sewage sample, using dip-	commensurate level			
per or bottle and conduct laboratory tests, using testing equipment,				
such as colorimeter. May operate and maintain power generating				
equipment to provide steam and electricity for plant				
Position: Sheet-Metal Worker, Maintenance	Minimum Years of Experience: 2			
Responsibilities: Fabricates, installs and maintains in good repair	Minimum Educational/Degree Requirements:			
the sheet-metal equipment and fixtures (such as machine guards,	High school diploma, or GED; college courses			
7 7 7				
· · · · · · · · · · · · · · · · · · ·	preferred			
grease pans, shelves, lockers, tanks, ventilators, chutes, ducts, metal	preferred Training or Certification Requirements: As			
grease pans, shelves, lockers, tanks, ventilators, chutes, ducts, metal roofing) of an establishment. Work involves: Planning and laying out	Training or Certification Requirements: As			
grease pans, shelves, lockers, tanks, ventilators, chutes, ducts, metal roofing) of an establishment. Work involves: Planning and laying out all types of sheet-metal maintenance work from blueprints, models,	Training or Certification Requirements: As may be required by local, state, or federal regula-			
grease pans, shelves, lockers, tanks, ventilators, chutes, ducts, metal roofing) of an establishment. Work involves: Planning and laying out all types of sheet-metal maintenance work from blueprints, models, or other specifications; setting up and operating all available types of	Training or Certification Requirements: As may be required by local, state, or federal regulations, or specific to specialty			
grease pans, shelves, lockers, tanks, ventilators, chutes, ducts, metal roofing) of an establishment. Work involves: Planning and laying out all types of sheet-metal maintenance work from blueprints, models, or other specifications; setting up and operating all available types of sheet-metal working machines; using a variety of hand tools in cut-	Training or Certification Requirements: As may be required by local, state, or federal regulations, or specific to specialty Substitution for Education: Technical training at			
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grease pans, shelves, lockers, tanks, ventilators, chutes, ducts, metal roofing) of an establishment. Work involves: Planning and laying out all types of sheet-metal maintenance work from blueprints, models, or other specifications; setting up and operating all available types of sheet-metal working machines; using a variety of hand tools in cutting, bending, forming, shaping, fitting and assembling; and installing sheet-metal articles as required.	Training or Certification Requirements: As may be required by local, state, or federal regulations, or specific to specialty Substitution for Education: Technical training at commensurate level			
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grease pans, shelves, lockers, tanks, ventilators, chutes, ducts, metal roofing) of an establishment. Work involves: Planning and laying out all types of sheet-metal maintenance work from blueprints, models, or other specifications; setting up and operating all available types of sheet-metal working machines; using a variety of hand tools in cutting, bending, forming, shaping, fitting and assembling; and installing sheet-metal articles as required. Position: Shipping Packer Responsibilities: Prepares finished products for shipment or stor-	Training or Certification Requirements: As may be required by local, state, or federal regulations, or specific to specialty Substitution for Education: Technical training at commensurate level Minimum Years of Experience: 2 Minimum Educational/Degree Requirements:			
grease pans, shelves, lockers, tanks, ventilators, chutes, ducts, metal roofing) of an establishment. Work involves: Planning and laying out all types of sheet-metal maintenance work from blueprints, models, or other specifications; setting up and operating all available types of sheet-metal working machines; using a variety of hand tools in cutting, bending, forming, shaping, fitting and assembling; and installing sheet-metal articles as required. Position: Shipping Packer Responsibilities: Prepares finished products for shipment or storage by placing them in shipping containers, the specific operations	Training or Certification Requirements: As may be required by local, state, or federal regulations, or specific to specialty Substitution for Education: Technical training at commensurate level Minimum Years of Experience: 2 Minimum Educational/Degree Requirements: High school diploma, or GED; college courses			
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Position: Shipping/Receiving Clerk	Minimum Years of Experience: 2		
Responsibilities: Performs clerical and physical tasks in connection	Minimum Educational/Degree Requirements:		
with shipping goods of the establishment in which employed and	High school diploma, or GED; college courses		
receiving incoming shipments. In performing day-to-day, routine	preferred		
tasks, follows established guidelines. In handling unusual nonroutine	1		
	Training or Certification Requirements: As		
problems, receives specific guidance from supervisor or other offi-	may be required by local, state, or federal regula-		
cials. May direct and coordinate the activities of other workers en-	tions, or specific to specialty		
gaged in handling goods to be shipped or being received. Shipping	Substitution for Education: Technical training at		
duties typically involve the following: Verifying that orders are accu-	commensurate level		
rately filled by comparing items and quantities of goods gathered for			
shipment against documents; insuring that shipments are properly			
packaged, identified with shipping information, and loaded into			
transporting vehicles; and preparing and keeping records of goods			
shipped, e.g., manifests, bills of lading. Receiving duties typically			
involve the following: Verifying the correctness of incoming ship-			
ments by comparing items and quantities unloaded against bills of			
lading, invoices, manifests, storage receipts, or other records; check-			
ing for damaged goods; insuring that goods are appropriately identi-			
fied for routing to departments within the establishment; preparing			
and keeping records of goods received.			
Position: Small Engine Mechanic	Minimum Years of Experience: 2		
Responsibilities: Repairs fractional-horsepower gasoline engines	Minimum Educational/Degree Requirements:		
used to power lawnmowers, garden tractors, and similar machines,	High school diploma, or GED; college courses		
using hand tools. Locates causes of trouble, dismantles engines, us-	preferred		
ing hand tools, and examines parts for defects. Replaces or repairs	Training or Certification Requirements: As		
parts, such as rings and bearings, using hand tools. Cleans and ad-	may be required by local, state, or federal regula-		
justs carburetor and magneto. Starts repaired engines and listens to	tions, or specific to specialty		
sounds to test performance.	Substitution for Education: Technical training at		
	commensurate level		
Position: Stationary Engineer	Minimum Years of Experience: 2		
Responsibilities: Operates and maintains one or more systems	Minimum Educational/Degree Requirements:		
which provide an establishment with such services as heat, air-	High school diploma, or GED; college courses		
conditioning (cool, humidify, dehumidify, filter, and circulate air),	preferred		
refrigeration, steam or high-temperature water or electricity. Duties	1		
involve: Observing and interpreting readings on gauges, meters and	Training or Certification Requirements: As		
charts which register various aspects of the system's operation, ad-	may be required by local, state, or federal regula-		
	tions, or specific to specialty		
justing controls to insure safe and efficient operation of the system and to meet demands for the service provided; recording in logs var-	Substitution for Education: Technical training at		
1	commensurate level		
ious aspects of the system's operation; keeping the engines, machinery and equipment of the system in good working order. May direct			
and coordinate activities of other workers (not stationary engineers) in performing tasks directly related to operating and maintaining the			
system or systems.			
Position: Stock Clerk	Minimum Years of Experience: 2		
Responsibilities: Receives, stores, and issues equipment, materials,	Minimum Educational/Degree Requirements:		
supplies, merchandise, foodstuffs, or tools, and compiles stock re-	High school diploma, or GED; college courses		
cords of items in stockroom, warehouse, or storage yard. Counts,	preferred		
sorts, or weighs incoming articles to verify receipt of items on requi-	Training or Certification Requirements: As		
	i i i annuny ur va ininanuli Neulliellellis. As		
sition or invoice. Examines stock to verify conformance to specifications. Stores articles in bins, on floor or on shelves, according to	may be required by local, state, or federal regulations, or specific to specialty		



identifying information, such as style, size, or type of material. Fills orders or issues supplies from stock. Prepares periodic, special, or perpetual inventory of stock. Requisitions articles to fill incoming orders. Compiles reports on use of stock handling equipment, adjustments of inventory counts and stock records, spoilage of or damage to stock, location changes, and refusal of shipments. May mark identifying codes, figures, or letters on articles.	Substitution for Education: Technical training at commensurate level			
Position: Store Worker I	Minimum Vaara of Evnerience, 2			
	Minimum Years of Experience: 2			
Responsibilities: Performs the following tasks at an establishment whose primary function is that of the resale of merchandise in a retail environment. Will move merchandise by use of non-motorized equipment that is intended for display and resale purposes. May be	Minimum Educational/Degree Requirements: High school diploma, or GED; college courses preferred Training or Certification Requirements: As			
required to keep inventory forms of merchandise stocked and merchandise returned to storage. May be required to affix labels to merchandise indicating sale price, item description, or other information.	may be required by local, state, or federal regulations, or specific to specialty Substitution for Education: Technical training at			
chandise indicating safe price, term description, or other information.	commensurate level			
Desitions Consultations				
Position: Supply Technician	Minimum Years of Experience: 2			
Responsibilities: Performs limited aspects of technical supply management work (e.g., inventory management, storage management, cataloging, property utilization) related to depot, local, or other sup-	Minimum Educational/Degree Requirements: High school diploma, or GED; college courses preferred			
ply activities. Work usually is segregated by commodity area or func-	Training or Certification Requirements: As			
tion, and controlled in terms of difficulty, complexity, or responsibil-	may be required by local, state, or federal regula-			
ity. Assignments usually relate to stable or standardized segments of	tions, or specific to specialty			
technical supply management operations; or to functions or subjects	Substitution for Education: Technical training at			
that are narrow in scope or limited in difficulty. The work generally	commensurate level			
involves individual case problems or supply actions. This work may				
require consideration of program requirements, together with spe-				
cific variations in or from standardized guidelines.				
Position: Survey Party Chief	Minimum Years of Experience: 3			
Responsibilities: Leads day-to-day work activities of survey party	Minimum Educational/Degree Requirements:			
under direction of land surveyor performing surveying duties not	High school diploma, or GED; college courses			
requiring licensure; supervises crew engaged in gathering data about	preferred			
the earth's surface using a variety of surveying instruments and in	Training or Certification Requirements: As			
clearing land and setting stakes to identify certain points; checks final	may be required by local, state, or federal regula-			
field notes for clarity and accuracy and completes transmittal forms.	tions, or specific to specialty			
	Substitution for Education: Technical training at commensurate level			
Position: Surveying Aide	Minimum Years of Experience: 2			
Responsibilities: Performs duties to assist in surveying land: holds level or stadia rod at designated points to assist in determining elevations and laying out stakes for map making, construction, mining, land, and other surveys, calls out reading or writes station number	Minimum Educational/Degree Requirements: High school diploma, or GED; college courses preferred			
and reading in notebook marks points of measurement with elevation, station number, or other identifying mark, and measures distance between survey points, using steel or cloth tape or surveyor's chain. Marks measuring point with keel (marking crayon), paint sticks, scratches, tacks, or stakes, places stakes at designated points	Training or Certification Requirements: As may be required by local, state, or federal regulations, or specific to specialty			
and drives them into ground at specified elevation using hammer or hatchet, and cuts and clears brush and trees from line of survey, using brush hook, knife, ax, or other cutting tools.	Substitution for Education: Technical training at commensurate level			



Position: Surveying Technician	Minimum Years of Experience: 3
Responsibilities: Obtains data pertaining to angles, elevations,	Minimum Educational/Degree Requirements:
points, and contours used for map making, mining, or other pur-	High school diploma, or GED; college courses
poses, using alidade, level, transit, plane table, theodolite, electronic	preferred
distance measuring equipment, and other surveying instruments,	Training or Certification Requirements: As
compiles notes, sketches, and records of data obtained and work per-	may be required by local, state, or federal regula-
formed, and directs work of subordinate members of survey team.	tions, or specific to specialty
,	Substitution for Education: Technical training at
	commensurate level
Position: Telecommunications Mechanic I	Minimum Years of Experience: 2
Responsibilities: Installs, removes, maintains, modifies, trouble-	Minimum Educational/Degree Requirements:
shoots, and repairs voice and/or nonvoice communications systems	High school diploma, or GED; college courses
including intercom and public address systems; alarm systems; tele-	preferred
type equipment; and electronic and electromechanical telephone key	Training or Certification Requirements: As
systems/PBAXs; terminal and communications equipment, including	may be required by local, state, or federal regula-
line drivers. Runs cables, key cables, or house wire to all telephone	tions, or specific to specialty
sets, terminal connectors, lugs, pins, or screws, associated with key	Substitution for Education: Technical training at
telephone equipment and/or terminating equipment for nonvoice	commensurate level
circuits.	
Position: Telecommunications Mechanic II	Minimum Years of Experience: 2
Responsibilities: Installs, tests, troubleshoots, programs, maintains,	Minimum Educational/Degree Requirements:
and repairs digital switching equipment, attendant consoles, power	High school diploma, or GED; college courses
and ringing relay racks, miscellaneous telephone, radio, fire alarms,	preferred
intrusion alarms, and computer data circuits and related apparatus	Training or Certification Requirements: As
required in the central switching office. Analyzes system failures and	may be required by local, state, or federal regula-
other unusual system occurrences to isolate the source of the prob-	tions, or specific to specialty; Microsoft Certified
lem and determine whether the failure is caused by software, hard-	Systems Engineer (MCSE)
ware, or other factors. Maintains manual and/or computerized cen-	Substitution for Education: Technical training at
tral office records, including detail records, traffic analysis records,	commensurate level
cable records, line records, subscriber service records and spare parts	
inventories.	
Position: Tools and Parts Attendant	Minimum Years of Experience: 2
Responsibilities: Receives, stores, and issues hand tools, machine	Minimum Educational/Degree Requirements:
tools, dies, replacement parts, shop supplies and equipment, such as	High school diploma, or GED; college courses
measuring devices, in industrial establishment. Keeps records of	preferred
tools issued to and returned by workers. Searches for lost or mis-	Training or Certification Requirements: As
placed tools. Prepares periodic inventory or keeps perpetual inven-	may be required by local, state, or federal regula-
tory and requisitions stock as needed. Unpacks and stores new	tions, or specific to specialty
equipment. Visually inspects tools or measures with micrometer for	Substitution for Education: Technical training at
wear or defects and reports damaged or worn-out equipment to su-	commensurate level
periors. May coat tools with grease or other preservative, using	
brush or spray gun. May attach identification tags or engrave identi-	
fying information on tools and equipment, using electric marking	
tool.	



Position: Tractor Operator	Minimum Years of Experience: 2			
Responsibilities: Drives gasoline or diesel powered tractor to move	Minimum Educational/Degree Requirements:			
materials, draw implements, tow trailers, pull out objects embedded	High school diploma, or GED; college courses			
in ground, or pull cable of winch to raise, lower, or load heavy mate-	preferred			
rial or equipment. Fastens attachments such as graders, plows, roll-	Training or Certification Requirements: As			
ers, mowers (over 2000 lbs.), backhoes, seeders, and disc harrows to	may be required by local, state, or federal regula-			
tractor. Adjusts equipment for proper operation. Lubricates and	tions, or specific to specialty			
makes minor repairs to tractor and attachments such as tightening				
bolts, and replacing washers, cotter pins, and screws.	Substitution for Education: Technical training commensurate level			
Position: Truckdriver, Heavy	Minimum Years of Experience: 2			
Responsibilities: Drives a truck (over 4 tons, usually 10 wheels) to	Minimum Educational/Degree Requirements:			
transport materials, merchandise, equipment, or workers between	High school diploma, or GED; college courses			
various types of establishments such as: manufacturing plants, freight	preferred			
depots, and warehouses, wholesale and retail establishments. May	Training or Certification Requirements: As			
also load or unload truck with or without helpers, make minor me-	may be required by local, state, or federal regula-			
chanical repairs, and keep truck in good working order.	tions, or specific to specialty			
	Substitution for Education: Technical training at			
	commensurate level			
Position: Truckdriver, Light	Minimum Years of Experience: 2			
Responsibilities: Drives a truck (under 1 ½ tons, usually 4 wheels)	Minimum Educational/Degree Requirements:			
to transport materials, merchandise, equipment, or workers between	High school diploma, or GED; college courses			
various types of establishments such as: manufacturing plants, freight	preferred			
depots, and warehouses, wholesale and retail establishments. May	Training or Certification Requirements: As			
also load or unload truck with or without helpers, make minor me-	may be required by local, state, or federal regula-			
chanical repairs, and keep truck in good working order.	tions, or specific to specialty			
	Substitution for Education: Technical training at			
	commensurate level			
Pott model was a second				
Position: Truckdriver, Medium	Minimum Years of Experience: 2			
Responsibilities: Drives a truck (1 ½ to 4 tons inclusive, usually 6	Minimum Educational/Degree Requirements:			
wheels) to transport materials, merchandise, equipment, or workers	High school diploma, or GED; college courses			
between various types of establishments such as: manufacturing				
	preferred			
plants, freight depots, and warehouses, wholesale and retail estab-	Training or Certification Requirements: As			
lishments. May also load or unload truck with or without helpers,	1			
	Training or Certification Requirements: As may be required by local, state, or federal regulations, or specific to specialty			
lishments. May also load or unload truck with or without helpers,	Training or Certification Requirements: As may be required by local, state, or federal regula-			
lishments. May also load or unload truck with or without helpers, make minor mechanical repairs, and keep truck in good working or-	Training or Certification Requirements: As may be required by local, state, or federal regulations, or specific to specialty			
lishments. May also load or unload truck with or without helpers, make minor mechanical repairs, and keep truck in good working or-	Training or Certification Requirements: As may be required by local, state, or federal regulations, or specific to specialty Substitution for Education: Technical training at commensurate level			
lishments. May also load or unload truck with or without helpers, make minor mechanical repairs, and keep truck in good working order. Position: Truckdriver, Tractor-Trailer	Training or Certification Requirements: As may be required by local, state, or federal regulations, or specific to specialty Substitution for Education: Technical training at commensurate level Minimum Years of Experience: 2			
lishments. May also load or unload truck with or without helpers, make minor mechanical repairs, and keep truck in good working order. Position: Truckdriver, Tractor-Trailer Responsibilities: Drives a Tractor-Trailer combination (a trailer	Training or Certification Requirements: As may be required by local, state, or federal regulations, or specific to specialty Substitution for Education: Technical training at commensurate level Minimum Years of Experience: 2 Minimum Educational/Degree Requirements:			
lishments. May also load or unload truck with or without helpers, make minor mechanical repairs, and keep truck in good working order. Position: Truckdriver, Tractor-Trailer Responsibilities: Drives a Tractor-Trailer combination (a trailer having a set or several sets of wheels at the rear only, with the for-	Training or Certification Requirements: As may be required by local, state, or federal regulations, or specific to specialty Substitution for Education: Technical training at commensurate level Minimum Years of Experience: 2 Minimum Educational/Degree Requirements: High school diploma, or GED; college courses			
lishments. May also load or unload truck with or without helpers, make minor mechanical repairs, and keep truck in good working order. Position: Truckdriver, Tractor-Trailer Responsibilities: Drives a Tractor-Trailer combination (a trailer having a set or several sets of wheels at the rear only, with the forward portion being supported by the truck tractor or towing vehicle)	Training or Certification Requirements: As may be required by local, state, or federal regulations, or specific to specialty Substitution for Education: Technical training at commensurate level Minimum Years of Experience: 2 Minimum Educational/Degree Requirements: High school diploma, or GED; college courses preferred			
lishments. May also load or unload truck with or without helpers, make minor mechanical repairs, and keep truck in good working order. Position: Truckdriver, Tractor-Trailer Responsibilities: Drives a Tractor-Trailer combination (a trailer having a set or several sets of wheels at the rear only, with the forward portion being supported by the truck tractor or towing vehicle) to transport materials, merchandise, equipment, or workers between	Training or Certification Requirements: As may be required by local, state, or federal regulations, or specific to specialty Substitution for Education: Technical training at commensurate level Minimum Years of Experience: 2 Minimum Educational/Degree Requirements: High school diploma, or GED; college courses preferred Training or Certification Requirements: As			
lishments. May also load or unload truck with or without helpers, make minor mechanical repairs, and keep truck in good working order. Position: Truckdriver, Tractor-Trailer Responsibilities: Drives a Tractor-Trailer combination (a trailer having a set or several sets of wheels at the rear only, with the forward portion being supported by the truck tractor or towing vehicle) to transport materials, merchandise, equipment, or workers between various types of establishments such as: manufacturing plants, freight	Training or Certification Requirements: As may be required by local, state, or federal regulations, or specific to specialty Substitution for Education: Technical training at commensurate level Minimum Years of Experience: 2 Minimum Educational/Degree Requirements: High school diploma, or GED; college courses preferred Training or Certification Requirements: As may be required by local, state, or federal regula-			
Iishments. May also load or unload truck with or without helpers, make minor mechanical repairs, and keep truck in good working order. Position: Truckdriver, Tractor-Trailer Responsibilities: Drives a Tractor-Trailer combination (a trailer having a set or several sets of wheels at the rear only, with the forward portion being supported by the truck tractor or towing vehicle) to transport materials, merchandise, equipment, or workers between various types of establishments such as: manufacturing plants, freight depots, and warehouses, wholesale and retail establishments. May	Training or Certification Requirements: As may be required by local, state, or federal regulations, or specific to specialty Substitution for Education: Technical training at commensurate level Minimum Years of Experience: 2 Minimum Educational/Degree Requirements: High school diploma, or GED; college courses preferred Training or Certification Requirements: As may be required by local, state, or federal regulations, or specific to specialty			
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Iishments. May also load or unload truck with or without helpers, make minor mechanical repairs, and keep truck in good working order. Position: Truckdriver, Tractor-Trailer Responsibilities: Drives a Tractor-Trailer combination (a trailer having a set or several sets of wheels at the rear only, with the forward portion being supported by the truck tractor or towing vehicle) to transport materials, merchandise, equipment, or workers between various types of establishments such as: manufacturing plants, freight depots, and warehouses, wholesale and retail establishments. May also load or unload truck with or without helpers, make minor mechanical repairs, and keep truck in good working order. Position: Ventilation Equipment Tender	Training or Certification Requirements: As may be required by local, state, or federal regulations, or specific to specialty Substitution for Education: Technical training at commensurate level Minimum Years of Experience: 2 Minimum Educational/Degree Requirements: High school diploma, or GED; college courses preferred Training or Certification Requirements: As may be required by local, state, or federal regulations, or specific to specialty Substitution for Education: Technical training at commensurate level Minimum Years of Experience: 2			
lishments. May also load or unload truck with or without helpers, make minor mechanical repairs, and keep truck in good working order. Position: Truckdriver, Tractor-Trailer Responsibilities: Drives a Tractor-Trailer combination (a trailer having a set or several sets of wheels at the rear only, with the forward portion being supported by the truck tractor or towing vehicle) to transport materials, merchandise, equipment, or workers between various types of establishments such as: manufacturing plants, freight depots, and warehouses, wholesale and retail establishments. May also load or unload truck with or without helpers, make minor mechanical repairs, and keep truck in good working order. Position: Ventilation Equipment Tender Responsibilities: Tends ventilating and heating equipment, such as	Training or Certification Requirements: As may be required by local, state, or federal regulations, or specific to specialty Substitution for Education: Technical training at commensurate level Minimum Years of Experience: 2 Minimum Educational/Degree Requirements: High school diploma, or GED; college courses preferred Training or Certification Requirements: As may be required by local, state, or federal regulations, or specific to specialty Substitution for Education: Technical training at commensurate level Minimum Years of Experience: 2 Minimum Educational/Degree Requirements:			
Iishments. May also load or unload truck with or without helpers, make minor mechanical repairs, and keep truck in good working order. Position: Truckdriver, Tractor-Trailer Responsibilities: Drives a Tractor-Trailer combination (a trailer having a set or several sets of wheels at the rear only, with the forward portion being supported by the truck tractor or towing vehicle) to transport materials, merchandise, equipment, or workers between various types of establishments such as: manufacturing plants, freight depots, and warehouses, wholesale and retail establishments. May also load or unload truck with or without helpers, make minor mechanical repairs, and keep truck in good working order. Position: Ventilation Equipment Tender	Training or Certification Requirements: As may be required by local, state, or federal regulations, or specific to specialty Substitution for Education: Technical training at commensurate level Minimum Years of Experience: 2 Minimum Educational/Degree Requirements: High school diploma, or GED; college courses preferred Training or Certification Requirements: As may be required by local, state, or federal regulations, or specific to specialty Substitution for Education: Technical training at commensurate level Minimum Years of Experience: 2			



valves to regulate temperature of lubrication oil and flow of water Training or Certification Requirements: As through system. Moves controls to regulate speed of fans and to may be required by local, state, or federal regulaadjust vents and ducts. Records gauge readings, repairs completed, tions, or specific to specialty and time lost because of inoperative equipment. Writes repair work Substitution for Education: Technical training at order tickets and out-of-order tags preparatory to equipment repair. commensurate level Inspects equipment to detect excessive noise and heat. Replaces gauges and tightens and chalks leaky fittings, using wrenches, hammers, and chalking tool. Cleans carbon deposits, pitch, and grease from fans, vents and ducts, using scrapers, hammer, and compressed air or steam. Position: Warehouse Specialist Minimum Years of Experience: 2 Responsibilities: Performs a variety of warehousing duties which Minimum Educational/Degree Requirements: require an understanding of the establishment's storage plan. Work High school diploma, or GED; college courses involves: Verifying materials (or merchandise) against receiving docpreferred uments, noting and reporting discrepancies and obvious damages; Training or Certification Requirements: As routing materials to prescribed storage locations; storing, stacking, or may be required by local, state, or federal regulapalletizing materials in accordance with prescribed storage methods; tions, or specific to specialty rearranging and taking inventory of stored materials; examining Substitution for Education: Technical training at stored materials and reporting deterioration and damage; removing commensurate level material from storage and preparing it for shipment. May operate hand or power trucks in performing warehousing duties. **Position:** Water Treatment Plant Operator Minimum Years of Experience: 2 Responsibilities: Controls treatment plant machines and equipment Minimum Educational/Degree Requirements: to purify and clarify water for human consumption and for industrial High school diploma, or GED; college courses use. Operates and controls electric motors, pumps, and valves to preferred regulate flow of raw water into treating plant. Dumps specified Training or Certification Requirements: As amounts of chemicals, such as chlorine, ammonia, and lime into wamay be required by local, state, or federal regulater or adjusts automatic devices that admit specified amounts of tions, or specific to specialty chemicals into tanks to disinfect, deodorize, and clarify water. Starts Substitution for Education: Technical training at agitators to mix chemicals and allows impurities to settle to bottom commensurate level of tank. Turns valves to regulate water through filter beds to remove impurities. Pumps purified water into water mains. Monitors panelboard and adjusts controls to regulator flow rates, loss of head pressure and water elevation and distribution of water. Cleans tanks and filter beds, using backwashing (reverse flow of water). Repairs and lubricates machines and equipment, using hand- and power tools. Tests water samples to determine acidity, color, and impurities, using colorimeter, turbidimeter, and conductivity meter. Dumps chemicals such as alum into tanks to coagulate impurities and reduce acidity. Records data, such as residual content of chemicals, water turbidity, and water pressure. May operate portable water-purification plant to supply drinking water. May purify waste water from plant preparatory to pumping water into rivers and steams or city mains. Position: Welder, Combination, Maintenance Minimum Years of Experience: 2 Responsibilities: Welds metal components together to fabricate or Minimum Educational/Degree Requirements: repair products, such as machine parts, plant equipment, motors and High school diploma, or GED; college courses generators, according to layouts, blueprints or work orders, using preferred brazing and a variety of arc and gas welding equipment. Welds metal parts together, using both gas welding or brazing and any combination of arc welding processes. Performs related tasks such as thermal



cutting and grinding. Repairs broken or cracked parts, fills holes, and increases size of metal parts. Positions and clamps together components of fabricated metal products preparatory to welding. May locate and repair cracks in industrial engine cylinder heads, using inspection equipment and gas torch. May perform repairs only.

Training or Certification Requirements: As may be required by local, state, or federal regulations, or specific to specialty

Substitution for Education: Technical training at commensurate level

Position: Well Driller

Responsibilities: Sets up and operates portable drilling rig (machine and related equipment) to drill wells. Extends stabilizing jackscrews to support and level drilling rig. Moves levers to control powerdriven winch that raises and extends telescoping mast. Bolts trusses and guy wires to raised mast and anchors them to machine frame and stakes. Assembles drilling tools, using hand tools or power tools. Moves levers and pedals to raise tools into vertical drilling position and lowers well casing (pipe that shores up walls of well) into well bore, using winch. Moves levers and pedals and turns handwells to control reciprocating action of machine and to drive or extract well casing. Pumps water into well to facilitate drilling by cooling drill bit and removing drillings. Listens to sounds of drilling machine and feels cable or brake to determine drilling conditions and to identify variations such as entering new strata or striking rock. Moves levers to adjust stroke and impact of cable tool drilling machine or changes drill bits of rotary drilling machine to fit changing conditions. Replaces drill bit with tool to collect samples of earth or rock being penetrated. Examines samples to determine nature of strata encountered or submits samples to laboratory for analysis. Records drilling progress and geological data. Splices worn or broken cable. May sharpen bits by heating them in forging furnace and hammering edges on anvil. May build up worn drill bits by arc welding, tempering bits in furnace, and by quenching them in water. May retrieve lost equipment from bore holes, using specialized retrieval tools and equipment. May fabricate well casings. May restore wells to active production

Minimum Years of Experience: 2

Minimum Educational/Degree Requirements: High school diploma, or GED; college courses preferred

Training or Certification Requirements: As may be required by local, state, or federal regulations, or specific to specialty

Substitution for Education: Technical training at commensurate level

Position: Woodcraft Worker

Responsibilities: Makes and repairs high-grade wooden items such as fine cabinets and furniture. Studies blueprints or drawings of articles to be constructed or repaired, and plans sequence of cutting or shaping operations. Marks outline or dimensions of parts on paper or lumber stock, according to blueprint or drawing specifications. Matches materials for color, grain, or texture. Sets up and operates woodworking machines, such as power saws, jointer, mortiser, tenoner, molder, and shaper, to cut and shape parts from woodstock. Trims component parts of joints to insure snug fit, using hand tools, such as planes, chisels, or wood files. Bores holes for insertion of screws or dowels by hand or using boring machine. Glues, fits, and clamps parts and subassemblies together to form complete unit, using clamps or clamping machine. Drives nails or other fasteners into joints at designated places to reinforce joints. Sands and scrapes surfaces and joints to prepare articles for finishing. May dip, brush, or spray assembled articles with protective or decorative materials, such as stain, varnish, or paint. Installs hardware, such as hinges, catches, and drawer pulls.

Minimum Years of Experience: 2

Minimum Educational/Degree Requirements: High school diploma, or GED; college courses preferred

Training or Certification Requirements: As may be required by local, state, or federal regulations, or specific to specialty

Substitution for Education: Technical training at commensurate level



Position: Woodworker	Minimum Years of Experience: 2
Responsibilities: Constructs and repairs items such as boxes, crates,	Minimum Educational/Degree Requirements:
pallets, and storage bins from wood and wood substitutes. Studies	High school diploma, or GED; college courses
specifications; and measures, marks, and cuts boards, using patterns,	preferred
templates, ruler, pencil, and hand and power saws. Fastens or installs	Training or Certification Requirements: As
parts, using hammer, nailing machine, or power stapler. Repairs de-	may be required by local, state, or federal regula-
fective containers by replacing damaged parts. Inserts wood brac-	tions, or specific to specialty
ings, cardboard files, and felt pads in containers. May build crate	Substitution for Education: Technical training at
around object, using ruler, hand tools, and pneumatic nailer. May	commensurate level
fabricate, repair, modify, and replace woodwork on vehicle sides and	
beds. May apply preservative to prolong wood life. Packs, seals,	
bands, and applies markings to crates and containers.	



IV. Attachment C: Hourly Rates

HGS Engineering, Inc. is proud to furnish hourly rates for the above-mentioned Labor Categories. These rates are our very best and have been pre-negotiated by the Federal Government. For more information or to procure service, please call Mr. Harry Summers at (256) 236-1848 or email him at harry@hgsengineeringinc.com.

Rates are effective March 5, 2009.

te circuite Maien 3, 2007.		Awarded	GSA Hou	ırly Rate	
Labor Categories	3/5/09	3/5/10	3/5/11	3/5/12	3/5/13
Labor Categories	thru	thru	thru	thru	thru
	3/4/10	3/4/11	3/4/12	3/4/13	3/4/14
Project Manager	\$86.76	\$89.36	\$92.04	\$94.80	\$97.64
Assistant Project Manager	80.93	83.36	85.86	88.44	91.09
Business Manager	77.05	79.36	81.74	84.19	86.72
Environmental Manager	77.05	79.36	81.74	84.19	86.72
Quality Manager	77.05	79.36	81.74	84.19	86.72
Safety Manager	77.05	79.36	81.74	84.19	86.72
Training Manager	77.05	79.36	81.74	84.19	86.72
Work Control Manager	77.05	79.36	81.74	84.19	86.72
Facilities Supervisor	71.22	73.36	75.56	77.83	80.16
Grounds Supervisor	71.22	73.36	75.56	77.83	80.16
Maintenance Supervisor	71.22	73.36	75.56	77.83	80.16
Plant Operations Supervisor	71.22	73.36	75.56	77.83	80.16
Structures Supervisor	71.22	73.36	75.56	77.83	80.16
Support Supervisor	71.22	73.36	75.56	77.83	80.16
Utilities Supervisor	71.22	73.36	75.56	77.83	80.16
Lead Automotive Worker	39.29	40.47	41.68	42.93	44.22
Lead Boiler Tender	44.13	45.45	46.81	48.21	49.66
Lead Carpenter, Maintenance	36.00	37.08	38.19	39.34	40.52
Lead Electrician, Maintenance	44.09	45.41	46.77	48.17	49.62
Lead Environmental Technician	46.15	47.53	48.96	50.43	51.94
Lead Forklift Operator	30.58	31.50	32.45	33.42	34.42
Lead Heating, Ventilation and Air-Conditioning Mechanic	42.38	43.65	44.96	46.31	47.70
Lead Heavy Equipment Mechanic	43.24	44.54	45.88	47.26	48.68
Lead Heavy Equipment Operator	38.71	39.87	41.07	42.30	43.57
Lead Instrument Mechanic	41.60	42.85	44.14	45.46	46.82
Lead Locksmith	31.98	32.94	33.93	34.95	36.00
Lead Machinery Maintenance Mechanic	40.26	41.47	42.71	43.99	45.31
Lead Machinist, Maintenance	37.54	38.67	39.83	41.02	42.25
Lead Painter, Maintenance	32.37	33.34	34.34	35.37	36.43
Lead Pest Controller	30.29	31.20	32.14	33.10	34.09
Lead Pipefitter, Maintenance	41.37	42.61	43.89	45.21	46.57
Lead Plumber, Maintenance	39.48	40.66	41.88	43.14	44.43
Lead Service Order Dispatcher	32.78	33.76	34.77	35.81	36.88
Lead Sewage Plant Operator	35.09	36.14	37.22	38.34	39.49
Lead Sheet-Metal Worker, Maintenance	39.23	40.41	41.62	42.87	44.16
Lead Stationary Engineer	44.13	45.45	46.81	48.21	49.66
Lead Supply Technician	49.04	50.51	52.03	53.59	55.20
Lead Warehouse Specialist	30.58	31.50	32.45	33.42	34.42
Lead Water Treatment Plant Operator	35.09	36.14	37.22	38.34	39.49
Lead Welder, Combination, Maintenance	33.67	34.68	35.72	36.79	37.89
Accounting Clerk I	25.55	26.32	27.11	27.92	28.76
Accounting Clerk II	27.94	28.78	29.64	30.53	31.45
Accounting Clerk III	31.26	32.20	33.17	34.17	35.20



	Awarded GSA Hourly Rate				
	3/5/09	3/5/10	3/5/11	3/5/12	3/5/13
Labor Categories	thru	thru	thru	thru	thru
	3/4/10	3/4/11	3/4/12	3/4/13	3/4/14
Administrative Assistant	47.10	48.51	49.97	51.47	53.01
Alarm Monitor	28.85	29.72	30.61	31.53	32.48
Automotive Worker	37.35	38.47	39.62	40.81	42.03
Boiler Tender	42.18	43.45	44.75	46.09	47.47
Carpenter, Maintenance	34.07	35.09	36.14	37.22	38.34
Carpet Layer	32.22	33.19	34.19	35.22	36.28
Civil Engineering Technician	36.12	37.20	38.32	39.47	40.65
Computer Operator I	31.13	32.06	33.02	34.01	35.03
Computer Operator II	35.73	36.80	37.90	39.04	40.21
Computer Operator III	39.85	41.05	42.28	43.55	44.86
Computer Operator IV	44.28	45.61	46.98	48.39	49.84
Computer Operator V	50.77	52.29	53.86	55.48	57.14
Computer Programmer I	48.75	50.21	51.72	53.27	54.87
Computer Programmer II	49.18	50.66	52.18	53.75	55.36
Dispatcher, Motor Vehicle	37.21	38.33	39.48	40.66	41.88
Drafter/CAD Operator I	36.04	37.12	38.23	39.38	40.56
Drafter/CAD Operator II	37.46	38.58	39.74	40.93	42.16
Drafter/CAD Operator III	41.22	42.46	43.73	45.04	46.39
Drafter/CAD Operator IV	50.87	52.40	53.97	55.59	57.26
Electrician, Maintenance	42.15	43.41	44.71	46.05	47.43
Electronics Technician Maintenance I	33.71	34.72	35.76	36.83	37.93
Electronics Technician Maintenance II	45.68	47.05	48.46	49.91	51.41
Electronics Technician Maintenance III	50.48	51.99	53.55	55.16	56.81
Engineering Technician I	31.26	32.20	33.17	34.17	35.20
Engineering Technician II	37.52	38.65	39.81	41.00	42.23
Engineering Technician III	40.18	41.39	42.63	43.91	45.23
Engineering Technician IV	47.06	48.47	49.92	51.42	52.96
Engineering Technician V	57.53	59.26	61.04	62.87	64.76
Engineering Technician VI	65.38	67.34	69.36	71.44	73.58
Environmental Technician	44.20	45.53	46.90	48.31	49.76
Fire Alarm System Mechanic	33.26	34.26	35.29	36.35	37.44
Fire Extinguisher Repairer	27.17	27.99	28.83	29.69	30.58
Forklift Operator	28.64	29.50	30.39	31.30	32.24
Fuel Distribution System Mechanic	39.35	40.53	41.75	43.00	44.29
Fuel Distribution System Operator	31.14	32.07	33.03	34.02	35.04
Gardener	25.29	26.05	26.83	27.63	28.46
General Clerk I	23.49	24.19	24.92	25.67	26.44
General Clerk II	28.78	29.64	30.53	31.45	32.39
General Clerk III	31.04	31.97	32.93	33.92	34.94
General Maintenance Worker	32.06	33.02	34.01	35.03	36.08
Heating, Ventilation and Air-Conditioning Mechanic	40.43	41.64	42.89	44.18	45.51
Heavy Equipment Mechanic	41.29	42.53	43.81	45.12	46.47
Heavy Equipment Operator	36.77	37.87	39.01	40.18	41.39
Instrument Mechanic	39.66	40.85	42.08	43.34	44.64
Janitor	21.16	21.79	22.44	23.11	23.80
Laborer	20.74	21.36	22.00	22.66	23.34
Laborer, Grounds Maintenance	20.54	21.16	21.79	22.44	23.11
Locksmith	30.04	30.94	31.87	32.83	33.81
Machinery Maintenance Mechanic	38.31	39.46	40.64	41.86	43.12
Machinist, Maintenance	35.59	36.66	37.76	38.89	40.06



		Awarded GSA Hourly Rate					
	3/5/09						
Labor Categories	thru	thru	thru	thru	thru		
	3/4/10	3/4/11	3/4/12	3/4/13	3/4/14		
Maintenance Trades Helper	24.35	25.08	25.83	26.60	27.40		
Material Coordinator	37.32	38.44	39.59	40.78	42.00		
Material Expediter	37.32	38.44	39.59	40.78	42.00		
Material Handling Laborer	25.28	26.04	26.82	27.62	28.45		
Mobile Equipment Servicer	32.34	33.31	34.31	35.34	36.40		
Order Clerk I	23.75	24.46	25.19	25.95	26.73		
Order Clerk II	27.00	27.81	28.64	29.50	30.39		
Painter, Maintenance	30.43	31.34	32.28	33.25	34.25		
Personal Computer Support Technician	44.28	45.61	46.98	48.39	49.84		
Personnel Assistant (Employment) I	29.53	30.42	31.33	32.27	33.24		
\ 1 \ /			35.07	36.12			
Personnel Assistant (Employment) II	33.06	34.05			37.20		
Personnel Assistant (Employment) III	36.92	38.03	39.17	40.35	41.56		
Pest Controller	28.35	29.20	30.08	30.98	31.91		
Pipefitter, Maintenance	39.42	40.60	41.82	43.07	44.36		
Plumber, Maintenance	37.54	38.67	39.83	41.02	42.25		
Pneudraulic Systems Mechanic	36.89	38.00	39.14	40.31	41.52		
Production Control Clerk	39.80	40.99	42.22	43.49	44.79		
Pruner	25.86	26.64	27.44	28.26	29.11		
Recycling Laborer	27.41	28.23	29.08	29.95	30.85		
Recycling Specialist	33.81	34.82	35.86	36.94	38.05		
Refuse Collector	23.88	24.60	25.34	26.10	26.88		
Secretary I	28.54	29.40	30.28	31.19	32.13		
Secretary II	33.79	34.80	35.84	36.92	38.03		
Secretary III	38.65	39.81	41.00	42.23	43.50		
Service Order Dispatcher	30.84	31.77	32.72	33.70	34.71		
Sewage Plant Operator	33.15	34.14	35.16	36.21	37.30		
Sheet-Metal Worker, Maintenance	37.29	38.41	39.56	40.75	41.97		
Shipping Packer	25.94	26.72	27.52	28.35	29.20		
Shipping/Receiving Clerk	25.94	26.72	27.52	28.35	29.20		
Small Engine Mechanic	31.16	32.09	33.05	34.04	35.06		
Stationary Engineer	42.18	43.45	44.75	46.09	47.47		
Stock Clerk	28.93	29.80	30.69	31.61	32.56		
Store Worker I	22.31	22.98	23.67	24.38	25.11		
Supply Technician	47.10	48.51	49.97	51.47	53.01		
Survey Party Chief	36.67	37.77	38.90	40.07	41.27		
Surveying Aide	21.51	22.16	22.82	23.50	24.21		
Surveying Technician	30.29	31.20	32.14	33.10	34.09		
Telecommunications Mechanic I	45.29	46.65	48.05	49.49	50.97		
Telecommunications Mechanic II	50.00	51.50	53.05	54.64	56.28		
Tools and Parts Attendant	28.64	29.50	30.39	31.30	32.24		
Tractor Operator	24.38	25.11	25.86	26.64	27.44		
Truckdriver, Heavy	36.86	37.97	39.11	40.28	41.49		
Truckdriver, Light	27.79	28.62	29.48	30.36	31.27		
Truckdriver, Medium	30.72	31.64	32.59	33.57	34.58		
Truckdriver, Tractor-Trailer	36.86	37.97	39.11	40.28	41.49		
Ventilation Equipment Tender	26.15	26.93	27.74	28.57	29.43		
Warehouse Specialist	28.64	29.50	30.39	31.30	32.24		
Water Treatment Plant Operator	33.15	34.14	35.16	36.21	37.30		
Welder, Combination, Maintenance	31.73	32.68	33.66	34.67	35.71		
Well Driller	32.08	33.04	34.03	35.05	36.10		
W CII DIIIICI	32.08	33.04	34.03	33.03	30.10		



Labor Categories	Awarded GSA Hourly Rate					
	3/5/09	3/5/10	3/5/11	3/5/12	3/5/13	
	thru	thru	thru	thru	thru	
	3/4/10	3/4/11	3/4/12	3/4/13	3/4/14	
Woodcraft Worker	36.89	38.00	39.14	40.31	41.52	
Woodworker	26.74	27.54	28.37	29.22	30.10	